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Netherlands PUB. COUNTRY:

General Review; (REVIEW) (REVIEW, TUTORIAL)

systemically and at mucosal surfaces. The paradigm that mucosal immunity adjuvant or SAMA4, was efficacious in eliciting both systemic and mucosal gG and IgA ***antibodies*** in sheep, pigs and mice. SAMA4 does not adjuvant to mucosal surfaces. We have developed a novel adjuvant system capable of intradermal delivery of antigens complexed in an ISCOSOME because inductive sites such as Peyer's patches and bronchial associated entry into the body either via the skin or a mucosal surface. Vaccination ymphoid tissues are located in the mucosal epithelium, has promoted a plethora of immunizing strategies aimed at delivering both antigen and provides a viable and cost-effective strategy for the prevention of such diseases and it has always been a principal aim with vaccinologists, to be able to promote simultaneously, protective immune responses both is best stimulated by exposure to antigen via a mucosal route simply Most medically important bacterial and viral ***pathogens*** delivery vehicle. This adjuvant, referred to as a skin and mucosal

19823 L5 AND (ADMINISTRATION OR IMMUNIZATION)

=> s 15 and (administration or immunization)

TOTAL FOR ALL FILES

112227 NASAL OR INTRANASAL

TOTAL FOR ALL FILES

=> s nasal or intranasal

antigen, intradermally delivered ovalbumin-SAMA4 complexes was found to iver and thymus revealed an effect of route of vaccine delivery upon the induce granulomatous lesions at the site of vaccine delivery and can be cytometric analysis of lymphocyte populations from the spleen, lung, response. Attempts to dissect the mode of action of SAMA4 by flow ***intranasal***, oral and intravaginal. Using ovalbumin as a test ***Cell used to deliver adjuvanted antigens by other routes including be very effective in promoting a cytotoxic ***T***

route-dependent re-mobilization and alteration in lymphocyte trafficking compartments. From this, it can be inferred that SAMA4 induced a composition of specific lymphocyte subsets in these various organ patterns. Other mucosal adjuvants such as cholera toxin B and

=> s 121 and((antigen presenting cell# or APC#)or(b(W)(cell# or lymphocyte#))or(t(W)(cell# or

3 FILE SCISEARCH 13 FILE MEDLINE

24

1.23

157 S L21 13 S L21 22 S L21 5 S L21

(((satisfied)))

3 FILE EMBASE

L26 L27

0 FILE BIOSIS

TOTAL FOR ALL FILES

L30

197 DUP REM L20 (66 DUPLICATES REMOVED)

PROCESSING COMPLETED FOR L20

2

=> dup rem 120

263 L15 AND PATHOGEN?

=> s 115 and pathogen? TOTAL FOR ALL FILES

2670 L10 AND ANTIBOD?

TOTAL FOR ALL FILES

=> s 110 and antibod?

CONTROLLED TERM: Check Tags: Animal; Comparative Study; Female; Human;

19 L21 AND((ANTIGEN PRESENTING CELL# OR APC#) OR(B(W)(CELL# O

R LYMPHOCYTE#)) OR(T(W)(CELL# OR LYMPHOCYTES)))

*** Antibody Formation***

****Bacterial Vaccines: AD, administration &***

Injections, Intradermal

Jung: IM, immunology

Peyer's Patches: IM, immunology

Sheep

Swine

Journal code: AL6. ISSN: 0168-1656.

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English

Priority Journals; B FILE SEGMENT:

9612 ENTRY MONTH:

ABSTRAC

TOTAL

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ENTRY

FULL ESTIMATED COST COST IN U.S. DOLLARS

0.15

microspheres, when injected intradermally, tended to promote primarily,

an IgG and not an IgA response against hte carrier antigen.

Support, Non-U.S. Gov't

Sacterial Vaccines: IM, immunology

*

Intestinal Mucosa: IM, immunology

Vaccination: MT, methods

CORPORATE SOURCE: NSW Agriculture, Elizabeth Macarthur Agricultural

Simecka J; Duncan J; Mullbacher A

Chin J; San Gil F; Novak M; Eamens G; Djordjevic S;

Manipulating systemic and mucosal immune responses

with skin-deliverable adjuvants.

AUTHOR:

MEDLINE

ACCESSION NUMBER: 96351449

L30 ANSWER 1 OF 19 MEDLINE

=> d iall 1-

Institute, Sydney, Australia. JOURNAL OF BIOTECHNOLOGY, (1996 Jan 26) 44 (1-3)

Ref: 12

SOURCE

****Viral Vaccines: AD, administration & dosage***

Viral Vaccines: IM, immunology

0 (Bacterial Vaccines); 0 (Viral Vaccines) CHEMICAL NAME:

Immunization with a soluble recombinant HIV protein entrapped in biodegradable microparticles induces HIV-specific CD8+ cytotoxic ***T*** ***lymphocytes*** and CD4+ Th1 cells. MEDLINE ACCESSION NUMBER: 96264828 L30 ANSWER 2 OF 19 MEDLINE

Moore A; McGuirk P, Adams S; Jones W C; McGee J P, O'Hagan D T; Mills K H AUTHOR

CORPORATE SOURCE: Biology Department, St. Patrick's College, Maynooth,

Co. Kildare, Ireland.

VACCINE, (1995 Dec) 13 (18) 1741-9.

Journal code: X6O. ISSN: 0264-410X

ENGLAND: United Kingdom PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH: ABSTRACT:

secretory IgA. Furthermore ***immunization*** with gp120 entrapped in moderate to high levels of IFN-gamma. Therefore, PLG microparticles are a microparticles induced consistent HIV-specific CD4+ and CD8+ ***T*** that ***immunization*** with a recombinant HIV envelop (env) protein responses were detected following a single systemic ***immunization*** ***cell*** responses in mice. Major histocompatibility complex (MHC) immunity with soluble protein antigens. In this study it was demonstrated One of the major obstacles to the development of successful recombinant microparticles generated CD4+ ***T*** ***cells*** that secreted ***intranasal*** (i.n.) route induced HIV-specific CD8+ CTL and ***lymphocytes*** (CTL) effective vaccine delivery system for the induction of cell mediated processing site for the generation of class I-restricted CTL, and are intracellular ***pathogens*** is the identification of a safe and vaccines against human immunodeficiency virus (HIV) and other safe and effective means of delivering antigen to the appropriate entrapped in biodegradable poly(lactide-co-glycolide) (PLG) with gp120 entrapped microparticles and when given by the class I-restricted cytotoxic ***T*** also capable of inducing Th1 cells

CONTROLLED TERM: Check Tags: Animal; Support, Non-U.S. Gov't

*** Antibody Specificity***

Biocompatible Materials

Biodegradation

Cell Division: IM, immunology

Sytotoxicity, Immunologic

****CD8-Positive T-Lymphocytes: IM, immunology***

*** HIV Envelope Protein gp120: AD, administration*** Drug Carriers

*HIV Envelope Protein gp120: IM, immunology & dosage***

**

****[mmunization***

Mice, Inbred BALB C

Microspheres

Polymers

Solubility

and further studies are ongoing in this and other autoimmune diseases

*Th1 Cells: IM, immunology

0 (polylactic acid-polyglycolic acid copolymer); 0 Biocompatible Materials); 0 (Drug Carriers); 0 (HIV Envelope Protein gp120); 0 (Polymers) CHEMICAL NAME:

L30 ANSWER 3 OF 19 MEDLINE

MEDLINE ACCESSION NUMBER: 96259573 Oral tolerance: mechanisms and possible role in IIILE

inflammatory joint diseases.

Kagnoff M F

CORPORATE SOURCE: Laboratory of Mucosal Immunology, University of

California, San Diego, La Jolla 92093-0623, USA.

CONTRACT NUMBER: DK35108 (NIDDK) DK47739 (NIDDK)

BAILLIERES CLINICAL RHEUMATOLOGY, (1996 Feb) 10 (1) Journal code: CRY, ISSN: 0950-3579. 41-54. Ref: 71

SOURCE:

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

General Review; (REVIEW) (REVIEW, TUTORIAL)

English LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH:

autoimmune and inflammatory diseases and IgE-mediated allergic disorders. Decreased systemic immune responsiveness to a specific antigen following antigen exposure via the ***nasal*** mucosa and a related phenomenon clonal deletion and ***antibody*** -mediated suppression can be shown collagen-induced, adjuvant-induced, antigen-induced and pristane-induced demonstrated in humans and clinical studies have been undertaken to treat host to develop mucosal tolerance may play a ***pathogenetic*** role arthritis has been delayed and the severity of ongoing disease diminished include the induction, following mucosal antigen exposure, of regulatory immunize the host to the same antigen that was previously administered well-defined immunological mechanisms mediate oral tolerance. These clinical studies in rheumatoid arthritis indicated a modest improvement to play a role in the induction and maintenance of mucosal tolerance in is seen following antigen exposure in the upper respiratory tract. There has been a marked renewal of interest in the mechanisms that underlie mucosal tolerance to an antigen administered by the mucosal route are cytokines (e.g. TGF-beta 1, IL-10 and IL-4). In addition, clonal anergy, orally or intragastrically. A similar phenomenon is also seen following following feeding collagen type II. Mucosal tolerance has been clearly development. Furthermore, putative abnormalities in the ability of the exposure to that antigen by the enteric route is termed 'oral tolerance.' oral tolerance because of its potential role for preventing and treating also of substantial importance for those involved in mucosal vaccine specific immune responses (e.g. DTH) via the production of specific The specific factors that determine whether or not the host develops in certain autoimmune and allergic diseases and disorders. Several Oral tolerance is revealed when attempts are made to parenterally populations of ***T*** - ***cells*** that can down-regulate rheumatoid arthritis using a similar approach. Results of initial several experimental systems. In animal studies, the onset of

therapeutic modality for preventing autoimmune and allergic disorders, diabetes). This approach, if successful, could offer a new and novel (e.g. multiple sclerosis, autoimmune uveitis and insulin-dependent and modulating ongoing disease. Check Tags: Animal; Human; Support, Non-U.S. Gov't; CONTROLLED TERM:

Support, U.S. Gov't, P.H.S.

*** Administration, Oral***

****Antigens: AD, administration & dosage***

*Antigens: IM, immunology

Arthritis, Rheumatoid: TH, therapy

*Arthritis, Rheumatoid: IM, immunology

Disease Models, Animal *Immune Tolerance

Mucous Membrane: IM, immunology

0 (Antigens) CHEMICAL NAME:

L30 ANSWER 4 OF 19 MEDLINE

MEDLINE ACCESSION NUMBER: 96066237 BHV-1 glycoprotein 1 and recombinant interleukin 1 beta efficiently elicit mucosal IgA response.

Gao Y; Daley M J; Splitter G A AUTHOR:

CORPORATE SOURCE. Department of Animal Health and Biomedical Sciences, University of Wisconsin-Madison 53706, USA...

VACCINE, (1995 Jun) 13 (9) 871-7. SOURCE

Journal code: X6O. ISSN: 0264-410X.

ENGLAND: United Kingdom PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH:

ABSTRACT

rBoIL-1 beta (500 ng kg-1) followed by a second ***immunization*** 42 days after the second *** immunization *** . Mucosal IgA from the nares days later. Animals were challenged with virulent BHV-1 intranasally 42 expension of IgA+ and IgG1+ ***B*** ***cells*** in rBolL-1 beta potentiate the induction of mucosal immunity. Animals were immunized ***nasal*** mucosa could prime local mucosal immunity. We further gl+rBoL-1 beta group were fully protected from viral replication in the The mucosal immune response to most soluble antigens administered animal-1) emulsified in incomplete Freund's adjuvant with or without was induced after only one ***immunization***, and enhanced by immunizing cattle at a site which shares lymphatic drainage with the increased numbers of surface IgA+(p<0.05) and IgG1+(p<0.001)treated animals. When challenged with BHV-1, 3 of 4 animals in the subcutaneously at the base of the ear (s.e.) with recombinant bovine directly to the mucosal system is low and requires a large amount of herpesvirus-1 (BHV-1) envelope glycoprotein I (gl) (35 micrograms boosting. rBoIL-1 beta treated animals had higher levels of BHV-1 ***antibody*** (p < 0.05). rBoIL-1 beta-treated animals also had tested whether recombinant bovine IL-1 beta (rBoIL-1 beta) could antigen and frequent vaccinations. In this study we tested whether ***B*** ***cells*** after in vitro antigen (gl) stimulation of peripheral blood lymphocytes suggesting that there was a greater ***nasal*** IgA (p < 0.01) and serum neutralizing nares, while only 1 of 4 animals receiving gI alone was specific

protected (ABSTRACT TRUNCATED AT 250 WORDS)

CONTROLLED TERM: Check Tags: Animal; Male; Support, U.S. Gov't,

Non-P.H.S.

*** Antibodies, Viral: Bl, biosynthesis*** Cattle

Cattle Diseases: IM, immunology

Cattle Diseases: PC, prevention & control

Cell Division: IM, immunology

Herpesviridae Infections: IM, immunology

Herpesviridae Infections: PC, prevention & control

*Herpesvirus 1, Bovine: IM, immunology

*** Herpesvirus 1, Bovine: PY, pathogenicity***

IgA: BI, biosynthesis

*IgA: IM, immunology

*Interleukin-1: IM, immunology

Monocytes: CY, cytology

Nasal Mucosa: IM, immunology

Neutralization Tests

Recombinant Proteins: IM, immunology

Respiratory Tract Diseases: IM, immunology

Respiratory Tract Diseases: PC, prevention & control Vaccines, Synthetic: IM, immunology

*Viral Proteins: IM, immunology

Virus Replication: IM, immunology

CHEMICAL NAME: 0 (bovine herpesvirus type-1 glycoproteins); 0 (

Antibodies , Viral); 0 (IgA); 0

(Interleukin-1), 0 (Recombinant Proteins), 0

(Vaccines, Synthetic); 0 (Viral Proteins)

L30 ANSWER 5 OF 19 MEDLINE

MEDLINE ACCESSION NUMBER: 95273775 ***Pathogenicity*** of neutralization escape

mutants of mouse hepatitis virus: correlation with T-

and ***B*** - ***cell*** depletions.

Lamontagne L; Page C; Braunwald J; Martin J P

CORPORATE SOURCE: Departement des Sciences Biologiques, Universite du

RESEARCH IN IMMUNOLOGY, (1994 Sep) 145 (7) 553-65. Quebec 'a Montreal, Que., Canada... SOURCE:

Journal code: R6E, ISSN: 0923-2494.

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) France PUB. COUNTRY:

English LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH:

ABSTRACT

induced by the mouse hepatitis virus type 3 (MHV3). The use of attenuated lymphotropic, understanding the ***pathogenic*** process of the viral disease becomes complicated because virus/lymphocyte interactions can alter the cell's integrity and subsequently induce immunodeficiency. The immune system plays an important role in the outcome of acute disease involved in its ***pathogenicity*** . We selected MHV3 mutants by Viral ***pathogenicity*** is a result of an imbalance between viral escape mutants provides a tool to study the role of viral properties replication and the host's immune defences. When the virus is

compartment of the immune system, since the highly attenuated CL12 mutant induced no immunodeficiency, as defined by immune cell depletion, whereas properties. We reported that two MHV3 escape mutants were attenuated in decreased. The use of such mutants enabled us to examine the role of each ***cells*** following ***cell*** subpopulations in the spleen, thymus and bone marrow of susceptible Balb/c mice. The highly attenuated CL12 mutant could not induce depletion in T or ***B*** ***cells*** following i.n. inoculation was induced with this mutant, although B lineage cells their ***pathogenic*** properties according to inoculation site and with regard to survival time and ability to deplete T- and ***B** the less attenuated 51.6 mutant maintained its ability to decrease only Results are discussed with regard to the virus/lymphocyte interactions ***antibodies*** (mAb), in order to study their ***pathogenic*** following i.p. inoculation, as described with the ***pathogenic*** three days postinfection. The less attenuated 51.6 mutant, however, intraperitoneal (i.p.) or ***intranasal*** (i.n.) inoculations, at maintained the ability to deplete T and ***B*** ***cells*** ***B*** - ***cell*** compartment after i.n. inoculation. virtue of their resistance to neutralization by monoclonal MHV3. In contrast, no depletion of ***T*** during the ***pathogenic*** process.

CONTROLLED TERM: Check Tags: Animal; Comparative Study; Support, **** Antibodies, Monoclonal: IM, immunology*** ****B-Lymphocyte Subsets: IM, immunology*** Gastroenteritis Virus, Murine: IM, immunology Gastroenteritis Virus, Murine: PH, physiology **** Antibodies, Viral: IM, immunology*** Gastroenteritis Virus, Murine: GE, genetics *Coronavirus Infections: VI, virology *** Administration, Intranasal*** Brain: PA, pathology Brain: VI, virology Non-U.S. Gov't

Viscera: VI, virology
CHEMICAL NAME: 0 (***Antibodies*** , Monoclonal); 0 (****Gastroenteritis Virus, Murine: PY, *** *T-Lymphocyte Subsets: IM, immunology 'Hepatitis, Viral, Animal: VI, virology Lymphoid Tissue: PA, pathology symphoid Tissue: VI, virology Injections, Intraperitoneal Virulence: GE, genetics 'Lymphocyte Depletion Viscera: PA, pathology Mice, Inbred BALB C pathogenicity*** Neutralization Tests Virus Replication Sign *

Antibody and cytokine responses in a mouse ACCESSION NUMBER: 95247285 MEDLINE ***Antibodies***, Viral) L30 ANSWER 6 OF 19 MEDLINE

pulmonary model of Shigella flexneri serotype 2a infection.

van de Verg L L; Mallett C P; Collins H H; Larsen T; Hammack C; Hale T L

CORPORATE SOURCE: Department of Enteric Infections, Walter Reed Army

INFECTION AND IMMUNITY, (1995 May) 63 (5) 1947-54. Institute of Research, Washington, D.C. 20307, USA...

Journal code: GO7. ISSN: 0019-9567.

Journal; Article; (JOURNAL ARTICLE) United States DOCUMENT TYPE: PUB. COUNTRY:

English LANGUAGE:

Priority Journals; Cancer Journals FILE SEGMENT:

ENTRY MONTH:

pulmonary and serum immunoglobulin G and A ***antibody*** recognizing A murine pulmonary model was used to study the mucosal immune response to invasion of bronchial and alveolar epithelia with concomitant development immunized mice after 48 h of infection, while peak levels were maintained Shigella flexneri serotype 2a infection. Inoculation of BALB/cJ mice with pneumonia. The pathology of pulmonary lesions resembled the colitis that which constituted primary and secondary immunizations, mice developed only in immunized mice. This cytokine appeared within 24 h and receded during the initial 24-h period. Both groups had elevated levels of gamma against lethal challenge was associated with decreased bacterial invasion of acute suppurative bronchiolitis and subsequent development of lethal characterizes shigellosis in humans and primates. Significant protection 48- and 72-h time points. Elevated levels of interleukin-4 were observed parenchymal cells showed that both groups experienced an initial influx while naive control mice developed elevated levels of this cytokine later between 48 and 72 h. Fluorescence-activated cell sorter analysis of lung levels following lethal challenge. Immune mice developed significantly elevated levels of pulmonary gamma interferon within 6 h of challenge, of the mucosal epithelium. Over the course of two sublethal challenges, against a lethal dose of S. flexneri 2a was observed in mice previously infected with two sublethal doses of the homologous strain. Immunity both lipopolysaccharide and invasion plasmid antigens IpaB and IpaC. Immune mice and naive control mice differed in lung lavage cytokine interferon during the 24- to 48-h period of infection. Both groups also challenge, but the control mice had significantly higher levels at the of monocytes, but the proportion of this cell type began to recede in in the control animals. These studies suggest that elements of local ***lymphocyte*** activity, as well as Th1 and Th2 shigellae via the ***intranasal*** route resulted in bacterial had elevated levels of tumor necrosis factor alpha within 6 h of ABSTRACI

**** Antibodies, Bacterial: BI, biosynthesis*** CONTROLLED TERM: Check Tags: Animal; Female *** Administration, Intranasal *** Bacterial Proteins: IM, immunology *Cytokines: BI, biosynthesis Disease Models, Animal Bronchiolitis

ymphocyte activity, may contribute to the survival of immune mice after

intranasal challenge with shigellae.

*Dysentery, Bacillary: IM, immunology Dysentery, Bacillary: MO, mortality

AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE CORPORATE SOURCE: National Institute of Public Health and Environmental Abridged Index Medicus Journals, Priority Journals Garssen J; Nijkamp F P; Van Vugt E; Van der Vliet H; hypersensitivity (DTH) reaction in murine lungs. These alterations were We previously demonstrated that tracheal hyperreactivity (in vitro) and animal model could be used as a model for cellular IgE-independent altered lung functions (in vivo) were induced during a delayed-type ***cell*** -derived antigen binding DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) CHEMICAL NAME: 0 (ipaB protein); 0 (***Antibodies*** transferable with ***T** ***cells***, suggesting that this Pneumonia, Bacterial: PC, prevention & control Dysentery, Bacillary: PC, prevention & control Bacterial), 0 (Bacterial Proteins); 0 (Cytokines) molecules play a role in the induction of airway MEDICINE, (1994 Dec) 150 (6 Pt 1) 1528-38. *** Shigella flexneri: PY, pathogenicity*** *Pneumonia, Bacterial: IM, immunology ACCESSION NUMBER: 95040349 MEDLINE TITLE: ***T*** ***cell*** -derived an Protection, Bilthoven, The Netherlands... Enzyme-Linked Immunosorbent Assay Mucous Membrane: IM, immunology Pneumonia, Bacterial: MO, mortality Journal code: BZS, ISSN: 1073-449X. Shigella flexneri: CL, classification *Shigella flexneri: IM, immunology Lung: MI, microbiology L30 ANSWER 7 OF 19 MEDLINE Lung: IM, immunology United States Mice, Inbred BALB C *** Immunization*** Jung: PA, pathology hyperresponsiveness. Survival Analysis mmunoblotting Flow Cytometry English 9502 Van Loveren H Serotyping PUB. COUNTRY: Mice FILE SEGMENT: ENTRY MONTH: LANGUAGE ABSTRACT SOURCE:

mast cell-arming TABM, followed by ***intranasal*** hapten challenge Dexamethasone, a well-known inhibitor of phospholipase A2, inhibited the functions (in vivo) were observed 2 h after challenge. From these data we factor antagonist WEB 2170 failed to abolish the induction of ***T*** ***cell*** -mediated hyperreactivity. Intravenous injection of purified arachidonic acid metabolites, but not cyclooxygenase products, play a challenge, which is characteristic of the early initiating phase of DTH. ayperreactivity. Pretreatment with the lipoxygenase inhibitor AA-861 Platelet-activating factor appeared not to be involved in the induction ***T*** ***cell*** -mediated hyperresponsiveness, whereas the of hyperresponsiveness in this model, because the platelet-activating conclude that airway hyperreactivity and altered lung functions are 30 min later, resulted in increased vascular permeability 2 h after significantly inhibited the induction of tracheal hyperreactivity cyclooxygenase inhibitor suprofen did not. This indicated that in addition, tracheal hyperreactivity (in vitro) and altered lung ole in the induction of ***T*** ***cell*** -mediated induced by early steps in the cellular cascade of DTH.

ayperresponsiveness can be less induced compared with normal littermates.

These experiments indicate that mast cells play at least a partial role

in the induction of airway hyperresponsiveness in this model

CONTROLLED TERM: Check Tags: Animal, Comparative Study; Male; Support, ****Receptors, Antigen, T-Cell: IM, immunology*** *** Receptors, Antigen, T-Cell: DE, drug effects*** Bronchial Hyperreactivity: PP, physiopathology Hypersensitivity, Delayed: PP, physiopathology *** Immunization, Passive: MT, methods*** Bronchial Hyperreactivity: IM, immunology Hypersensitivity, Delayed: IM, immunology *** Specific Pathogen-Free Organisms*** ****T-Lymphocytes: IM, immunology*** *** T-Lymphocytes: DE, drug effects*** *Bronchial Hyperreactivity: ET, etiology Capillary Permeability: DE, drug effects Capillary Permeability: IM, immunology Hypersensitivity, Delayed: ET, etiology Airway Resistance: IM, immunology Airway Resistance: DE, drug effects *Picryl Chloride: PD, pharmacology frachea: PP, physiopathology Mast Cells: IM, immunology Mast Cells: DE, drug effects Lung: PP, physiopathology Frachea: DE, drug effects Frachea: IM, immunology Lung: DE, drug effects Mice, Inbred BALB C Non-U.S. Gov't

0 (Receptors, Antigen, ***T*** - ***Cell***) CAS REGISTRY NO.: 88-88-0 (Picryl Chloride) L30 ANSWER 8 OF 19 MEDLINE ACCESSION NUMBER: 95038296 CHEMICAL NAME:

cell -mediated hyperresponsiveness. Moreover, in mast

cell-deficient mice, ***T*** ***cell*** -mediated

transfer hyperreactivity. The cromoglycate-like antiasthmatic drug nedocromil, which stabilizes mast cells, inhibited the induction of

cell -derived antigen binding molecules

isotype of ***T***

partially inhibited the induction of hyperreactivity. Depletion of 14-30+

suppressor/cytotoxic cells failed to abolish the ability of transferred immunity. In the present study we demonstrated that depletion of T

cells to induce hyperresponsiveness. Depletion of T helper cells

cells (the monoclonal ***antibody*** 14-30 reacts with a common [TABM] that can arm mast cells) completely abolished the ability to

Vaccination: MT, methods

MEDLINE

CELLULAR AND MOLECULAR BIOLOGY, (1994) 40 Suppl 1 CONTROLLED TERM: Check Tags: Animal; Human; Support, Non-U.S. Gov't; CORPORATE SOURCE: INSERM Unit 80, Hopital Edouard-Herriot, Lyon, are being employed in studies attempting to induce optimal mucosal immune cell-derived cytokines has also been examined. These tools and approaches ***immunization*** (s). The anatomical distribution of T- and accessory Although the immune system is remarkably diverse, there is evidence that may explain the unification of immune responses in diverse mucosal sites circulating precursors of mucosal immunoblasts and by the production of carrier-delivery systems. The tissue localization and isotype commitment ***antibody*** -secreting cells (ASC) and the homing potential of mucosal and extramucosal tissues in primates and rodents, using cholera mucosal immune system that provides immune reactivity not only at the Exploration of mucosal immunity in humans: relevance explained by the utilization of organ-specific recognition molecules by mechanisms. Novel methods have been developed to enable studies of ***cell*** responses in various responses to several mucosal ***pathogens*** including HIV-1, in certain anatomic locations within the body. The concept of a common preferentially in certain organs or parts of a given organ. This notion certain organs such as the lower gastrointestinal tract and the female and the physiologic segregation of mucosal from systemic immune *** Cholera Toxin: AD, administration & dosage*** certain types of immune responses take place and are restricted to *** Antibody-Producing Cells: IM, immunology*** DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) site of antigen deposition but also at remote mucosal sites may be ingenital tract.(ABSTRACT TRUNCATED AT 250 WORDS) certain maturation factors (e.g. cytokines, hormones) produced their circulating precursors have also been examined after oral toxin or its B subunit as prototype immunogens and mucosal CONTRACT NUMBER: 3RO1HD26634-0151 (NICHD) 'Mucous Membrane: IM, immunology 'Vaccines: IP, isolation & purification ***nasal***, intra-tonsillar, rectal and/or genital Intestinal Mucosa: IM, immunology Escherichia coli: IM, immunology Gastric Mucosa: IM, immunology Czerkinsky C, Holmgren J Cholera Toxin: IM, immunology Nasopharynx: IM, immunology General Review; (REVIEW) Support, U.S. Gov't, P.H.S. Priority Journals (REVIEW, TUTORIAL) to vaccine development. antigen specific B and ***T*** Journal code: BNA. France English 37-44. Ref: 21 Immunity France. PUB. COUNTRY: ENTRY MONTH: FILE SEGMENT: ANGUAGE ABSTRACT AUTHOR SOURCE: TITLE

CAS REGISTRY NO.: 9012-63-9 (Cholera Toxin) 0 (Vaccines) CHEMICAL NAME:

L30 ANSWER 9 OF 19 MEDLINE

MEDLINE ACCESSION NUMBER: 94095926

Development of the airway intraepithelial dendritic

cell network in the rat from class II major

histocompatibility (Ia)-negative precursors:

differential regulation of la expression at different levels of the respiratory tract.

Nelson D J, McMenamin C; McWilliam A S; Brenan M;

AUTHOR:

CORPORATE SOURCE: Division of Cell Biology, Western Australian Research Holt P G

Institute for Child Health, Princess Margaret

JOURNAL OF EXPERIMENTAL MEDICINE, (1994 Jan 1) 179 SOURCE:

Hospital, Subiaco.

(1) 203-12

Journal code: I2V. ISSN: 0022-1007

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) English DOCUMENT TYPE: LANGUAGE

Priority Journals; Cancer Journals FILE SEGMENT

ENTRY MONTH:

ABSTRACT

cell system. However, immune competence in the adult epithelium. Costaining of these Ox62+ DC with Ox6 is rare in the neonate complex (MHC) (Ia) expression. In animals housed under dust-controlled The relative inefficiency of respiratory mucosal immune function during immunostaining with the monoclonal ***antibody*** (mAb) Ox6 are patterns are not observed until after weaning. In contrast, the mAb Ox62 comprised, on average, 65% of the overall intraepithelial DC population. and increases progressively throughout infancy, and by weaning Ia+ DC microenvironmental regulation of their class II major histocompatibility study examines the density and distribution of these DC throughout the usually not seen until day 2-3 after birth, and adult-equivalent staining capacity of local networks of intraepithelial dendritic cells (DC). This lung has recently been shown to be closely linked to the functional detects large numbers of DC in fetal, infant, and adult rat airway infancy is generally attributed to the immaturity of the neonatal conditions, airway epithelial and alveolar la+ DC detectable by neonatal respiratory tract in rats, focusing particularly on In infant rats, Ia+ DC are observed first at the base of the

interferon gamma, and decreased by exposure of infant rats to aerosolized 7-10-fold lower. Additionally, the rate of postnatal appearance of lahigh ipregulated by mediators that are produced within the lung and airway spithelium in response to inhalation of proinflammatory stimuli. It was DC in the airway epithelium was increased by ***administration*** comparable with that of Iahigh epidermal Langerhans cells in adjacent analysis of Ia staining intensity of individual DC demonstrates that by inflammatory stimuli. Consistent with this suggestion, densitometric facial skin, at a time when expression by tracheal epithelial DC was 2-3 d after birth, la expression by ***nasal*** epithelial DC was particulates, suggesting that their maturation is driven in part by steroid. These findings collectively suggest that Ia expression by ***nasal*** turbinates, sites of maximum exposure to inhaled neonatal respiratory tract DC is locally controlled and can be

levels of class I MHC, which suggests differences in capacity to prime for CD8(+)-dependent versus CD4(+)-dependent immunity to inhaled also noted that lalow neonatal airway DC expressed adult equivalent **pathogens***, during the early postnatal period.

histopathology was observed after ***intranasal*** RSV challenge of

CONTROLLED TERM: Check Tags: Animal; Support, Non-U.S. Gov't Androstadienes: PD, pharmacology Animals, Newborn

Anti-Inflammatory Agents, Steroidal: PD

pharmacology

Dendritic Cells: IM, immunology

*Dendritic Cells: CY, cytology

Epithelium: CY, cytology

Epithelium: DE, drug effects

Epithelium: GD, growth & development Epithelium: IM, immunology

*Histocompatibility Antigens Class II: BI

Flow Cytometry

Histocompatibility Antigens Class II: IM, immunology piosynthesis

Respiratory System: CY, cytology

Respiratory System: IM, immunology

*Trachea: CY, cytology

Trachea: DE, drug effects

Trachea: GD, growth & development

Trachea: IM, immunology

CAS REGISTRY NO.: 80474-14-2 (fluticasone)

0 (Androstadienes); 0 (Anti-Inflammatory Agents, Steroidal); 0 (Histocompatibility Antigens Class II) CHEMICAL NAME:

L30 ANSWER 10 OF 19 MEDLINE

ACCESSION NUMBER: 93059699 MEDLINE

Pulmonary histopathology induced by respiratory

syncytial virus (RSV) challenge of

formalin-inactivated RSV-immunized BALB/c mice is

abrogated by depletion of CD4+ ***T***

cells

Connors M; Kulkarni A B; Firestone C Y; Holmes K L; AUTHOR

Morse H C 3d; Sotnikov A V; Murphy B R

CORPORATE SOURCE: Respiratory Viruses Section, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland 20892..

JOURNAL OF VIROLOGY, (1992 Dec) 66 (12) 7444-51

Journal code: KCV. ISSN: 0022-538X

Journal; Article; (JOURNAL ARTICLE) United States DOCUMENT TYPE: PUB. COUNTRY:

English LANGUAGE:

Priority Journals; Cancer Journals FILE SEGMENT:

9302 ENTRY MONTH:

ABSTRACT

In previous studies, it was observed that children immunized with a formalin-inactivated respiratory syncytial virus vaccine (FI-RSV)

efforts to develop an animal model of this phenomenon, enhanced pulmonary developed severe pulmonary disease with greater frequency during subsequent natural RSV infection than did controls. During earlier

oulmonary histopathology in FI-RSV-immunized mice, whereas it had a much histopathology was observed in FI-RSV-immunized or RSV-infected BALB/c FI-RSV-immunized cotton rats. Progress in understanding the immunologic smaller effect on mice previously infected with RSV. FI-RSV-immunized or were undertaken. Mice previously immunized with FI-RSV or infected with contributions of CD4+ or CD8+ ***T*** ***cells*** to this process FI-RSV ***immunization*** induced a low level. These data indicate ***cells*** had only a modest reduction of pulmonary histopathology. In addition, RSV infection induced high levels of major histocompatibility complex class inflammatory cell infiltration around bronchioles and pulmonary blood ***T*** - ***cell*** subset depletion on pulmonary histopathology basis for these observations has been hampered by the lack of reagents RSV-infected, nondepleted animals was similar, indicating that this is RSV were depleted of CD4+, CD8+, or both ***T*** . ***cell*** problem prompted us to reinvestigate the characteristics of immunity infiltration at each anatomic site in previously FI-RSV-immunized or that ***immunization*** with FI-RSV induces a cellular immune following RSV challenge was very different between the two groups. Depletion of CD4+ ***T*** ***cells*** completely abrogated esponse different from that induced by RSV infection, which likely subsets immediately prior to RSV challenge, and the magnitude of vessels and into alveolar spaces was quantified. The magnitude of useful in manipulating the immune response of the cotton rat. This not a relevant model for enhanced disease. However, the effect of played a role in enhanced disease observed in infants and children -restricted cytotoxic ***T*** - ***cell*** activity, whereas mice upon RSV challenge, and studies to determine the relative RSV in the mouse. In the present studies, extensive pulmonary RSV-infected animals depleted of CD8+ ***T***

CONTROLLED TERM: Check Tags: Animal; Comparative Study; Female

**** Antibodies, Viral: AN, analysis ***

*Antigens, CD4: IM, immunology

H-2 Antigens: IM, immunology Formaldehyde

Lung: IM, immunology Haplotypes

Lung: MI, microbiology *Lung: PA, pathology

*Lymphocyte Depletion

Mice, Inbred BALB C

Mice, Inbred C57BL

Respiratory Syncytial Viruses: IM, immunology Respiratory Syncytial Viruses: PH, physiology

****Respiratory Syncytial Viruses: PY, ***

pathogenicity***

Spleen: IM, immunology

****T-Lymphocytes, Cytotoxic: IM, immunology*** *T-Lymphocyte Subsets: IM, immunology

*Vaccines, Attenuated: IM, immunology

*Viral Vaccines: IM, immunology

Virus Replication

0 (***Antibodies*** , Viral); 0 (Antigens, CD4); 0 CAS REGISTRY NO.: 50-00-0 (Formaldehyde) CHEMICAL NAME:

(H-2 Antigens); 0 (Vaccines, Attenuated); 0 (Viral Vaccines)

MEDLINE L30 ANSWER 11 OF 19 MEDLINE ACCESSION NUMBER: 93037041 Distribution of immunocompetent cells in the

endolymphatic sac.

Kawauchi H; Ichimiya I; Kaneda N; Mogi G AUTHOR

CORPORATE SOURCE: Department of Otolaryngology, Medical College of Oita, Japan.

ANNALS OF OTOLOGY, RHINOLOGY, AND LARYNGOLOGY. SUPPLEMENT, (1992 Oct) 157 39-47. SOURCE

lournal code: 5Q3, ISSN: 0096-8056.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English ANGUAGE

Priority Journals FILE SEGMENT:

9301 ENTRY MONTH:

ABSTRACT

mechanism of the inner ear, the distribution patterns of those cells were To better understand the role of immunocompetent cells in the defense

investigated in the endolymphatic sac (ES) of mice maintained in three different conditions: germ-free (GF), specific ***pathogen*** -free

(SPF), and conventional (CV). In another experiment, the recruitment of lymphocyte subsets was examined in the ES of SPF rats undergoing a

ES of GF mice, no immunocompetent cells were found. In the ES of SPF and CV mice, cells positive for IgG, IgA, IgM, and Lyt-1 were present in much smaller numbers than in the ***nasal*** mucosa. Cells positive for perilymphatic antigen challenge after systemic presensitization. In the Lyt-2 were not seen in the ES of any mice. In the ES of rats that

underwent a perilymphatic antigenic stimulation after a systemic

suggest that the ES is not originally equipped to possess immunocompetent cells and mount an immune response, but that once it has been activated week after perilymphatic antigen challenge. These results taken together ***!ymphocyte*** subsets (positive for ***cell*** subsets (helper/inducer and suppressor) were also found 1 with the inner ear antigenic stimuli, the ES can be the active site of a igG, IgA, IgM) were mobilized in increased numbers, and ***T*** presensitization, ***B***

CONTROLLED TERM: Check Tags: Animal; Male; Support, Non-U.S. Gov't ocal immune response of the inner ear.

*** Antibody Formation***

Antigens: IM, immunology

Endolymphatic Sac: IM, immunology

Enzyme-Linked Immunosorbent Assay

Hemocyanin: IM, immunology Germ-Free Life

*** Immunization***

mmunoglobulins: AN, analysis *immunohistochemistry*

*Lymphocytes: IM, immunology Lymphocyte Subsets

Mice, Inbred ICR

Perilymph: IM, immunology

Rats, Wistar

*** Specific Pathogen-Free Organisms***

CAS REGISTRY NO.: 9013-72-3 (Hemocyanin)

0 (keyhole-limpet hemocyanin); 0 (Antigens); 0 CHEMICAL NAME:

(Immunoglobulins)

MEDLINE L30 ANSWER 12 OF 19 MEDLINE ACCESSION NUMBER: 88028394

Host defense impairments that may lead to respiratory TITLE:

infections

CORPORATE SOURCE: Pulmonary Section, Yale University School of Reynolds H Y AUTHOR:

Medicine, New Haven, Connecticut.. SOURCE:

CLINICS IN CHEST MEDICINE, (1987 Sep) 8 (3) 339-58.

Journal code: DLR. ISSN: 0272-5231 Ref: 107

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

General Review; (REVIEW)

(REVIEW, ACADEMIC

Priority Journals English TILE SEGMENT ANGUAGE

8802 ENTRY MONTH:

ABSTRACT

immunoglobulins IgG and IgA and the interaction of alveolar macrophages element of the normal defense apparatus may have failed or is inadequate. may be a manifestation of a hereditary disease. In pneumonia the alveolar or destruction of IgA may predispose to sinopulmonary infections; these alveolar spaces effectively remove or contend with micro-organisms that several directions. This scavenger phagocyte first intercepts the microbe clearance and/or deficiencies in certain IgG subclass ***antibodies*** and lymphocytes, and examines deficiencies in their function that may and suffice to keep colonizing airway flora in check. When pneumonia Host defense mechanisms spaced along the respiratory tree and in the develops or recurrent sinopulmonary infection exists, however, some and either can kill or contain it or must call in some other phagocytic microbe or a large innoculum of a ***pathogen***, can result in people. Special circumstances, such as virgin exposure to a virulent Ilness, but usually routine surveillance host defenses are protective This review highlights several components of the apparatus, that is macrophage is positioned as the central cell which must respond in enter the airways, so serious lung infections occur rarely in healthy result in infection. Along the conducting airways, poor mucociliary cell or inflammatory mediator(s) for assistance. Opsonic

antibodies (IgG) and other nonimmune opsonins (complement and encapsulated bacteria (pneumococcus). Insufficient bone marrow reserves ***lymphocytes*** to energize macrophages, through soluble cellular alveoli is a situation that may permit gram-negative bacilli and fungal surfactant or fibronectin fragments) facilitate phagocytosis, but an absence of ***antibody*** may permit infection to develop with of PMNs or a paucity of chemotactic factors to attract them into the organisms to flourish. Inability of immune ***T***

phagocytes (Legionella or mycobacteria). Likewise, concomitant infection mediators that provide cell-mediated immunity and activation, makes of macrophages with viruses (human immunodeficiency virus, and containment of certain intracellular microbes impossible for these

therapy more specific through ***immunization*** to develop special suppressor cell influence may make P. carinii and common bacterial and Consideration about what the lung host deficiency might be can make cytomegalovirus or herpes viruses) plus an excessive T-lymphocyte fungal organisms difficult to contain in the lungs of AIDS patients subclasses), or selective ***administration*** of cell mediators ***antibodies***, replacement of certain immunoglobulins (IgG gamma-interferon or interleukins)

Check Tags: Human CONTROLLED TERM:

*** Antibody Formation***

Bronchoalveolar Lavage Fluid: IM, immunology Bronchoalveolar Lavage Fluid: CY, cytology

Immunity, Cellular

Immunoglobulins: AN, analysis

Immunologic Deficiency Syndromes: CO, complications

*** Nasal Mucosa: SE, secretion***

*Respiratory Tract Infections: ET, etiology

Respiratory Tract Infections: IM, immunology

L30 ANSWER 13 OF 19 MEDLINE

MEDLINE ACCESSION NUMBER: 75150165

The part played by cell-mediated immunity in

mycoplasma respiratory infections.

Taylor G; Taylor-Robinson D AUTHOR:

DEVELOPMENTS IN BIOLOGICAL STANDARDIZATION, (1975) 28 SOURCE:

Journal code: E7V.

Switzerland PUB COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE

Priority Journals FILE SEGMENT:

7509 ENTRY MONTH:

ABSTRACT

anti-lymphocyte serum (ALS), and in hamsters by treatment with ALS. These ***Intranasal*** inoculation of M. pulmonis in mice and M. pneumoniae perivascular cuffing by lymphocytes. Thymus-dependent lymphocytes were infected animals compared with infected immunologically normal animals. importance of thymus-dependent lymphocytes in the ***pathogenesis*** of mycoplasma-induced pulmonary disease. However, the role that these ung washings from immune hamsters that protects against loss of ciliary the lungs of the immunosuppressed animals. These results indicate the in hamsters results in pneumonia characterised by peribronchiolar and In addition, the organisms were present in slightly greater numbers in procedures caused a reduction in the severity of pneumonic lesions in infected with M. pneumoniae indicate that there is a factor present in depleted in mice by thymectomy and X-irradiation or treatment with cells play in resistance to infection is not known and it may be that preliminary experiments involving hamster tracheal organ cultures local secretory ***antibody*** is also important. Results of activity brought about by M. pneumoniae.

Check Tags: Animal; Comparative Study *** Antibodies, Bacterial: AN, analysis *** CONTROLLED TERM:

Antigens, Bacterial

*** Antilymphocyte Serum: AD, administration &***

*Respiratory Tract Infections: IM, immunology Respiratory Tract Infections: PA, pathology *** T-Lymphocytes: IM, immunology*** *Mycoplasma Infections: IM, immunology *** T-Lymphocytes: PH, physiology*** Mycoplasma Infections: PA, pathology njections, Intraperitoneal Lung: IM, immunology Cilia: IM, immunology Lymphocyte Depletion Lung: PA, pathology Immunosuppression Immunity, Cellular dosage*** Radiation Hamsters Mice

L30 ANSWER 14 OF 19 SCISEARCH COPYRIGHT 1997 ISI (R) ACCESSION NUMBER: 96:261509 SCISEARCH

Thymectomy

INDUCTION OF COMMON MUCOSAL IMMUNITY BY HORMONALLY THE GENUINE ARTICLE: UC314

DAYNES R A (Reprint); ENIOUTINA E Y; BUTLER S; MU H IMMUNOMODULATED PERIPHERAL ***IMMUNIZATION*** AUTHOR:

CORPORATE SOURCE: UNIV UTAH, SCH MED, DEPT PATHOL, SALT LAKE CITY, UT, H; MCGEE Z A; ARANEO B A

84132 (Reprint); UNIV UTAH, DEPT MED, DIV INFECT

DIS, SALT LAKE CITY, UT, 84132; PARADIGM BIOSCI INC, SALT LAKE CITY, UT, 84132; VET AFFAIRS MED CTR, CTR GERIATR RES EDUC & CLIN, SALT LAKE CITY, UT, 84132

COUNTRY OF AUTHOR: USA

INFECTION AND IMMUNITY, (APR 1996) Vol. 64, No. 4, SOURCE:

ISSN: 0019-9567 pp. 1100-1109.

Article, Journal

DOCUMENT TYPE:

ENGLISH FILE SEGMENT: LANGUAGE:

REFERENCE COUNT

ABSTRACT:

The study described in this report demonstrates that peripheral lymph

microenvironmental conditions are altered to mimic those normally present within mucosa-associated lymphoid tissues (e.g., Peyer's patches). Lymph nodes draining nonmucosal tissues can effectively serve as induction sites for the establishment of common mucosal immunity if the

normone-immunomodulated switch from a peripheral lymph node phenotype to the hormone 1 alpha, 25-dihydroxy vitamin D-3 were found to produce less observed increased concentrations of serum anti-HBsAg ***antibody*** node lymphocytes exposed in situ to the immunomodulatory influences of and a common mucosal immune response. This was deter mined by the gamma interferon and interleukin-2 (LL-2) and far more LL-4, LL-5, and a Peyer's patch-like pattern promoted the induction of both a systemic and by finding that anti-HBsAg secretory ***antibodies*** were L-10 than lymphocytes from control animals. When coupled with vaccination with hepatitis B surface antigen (HBsAg), the

detectable in urogenital, lachrymal, fecal, and oral secretions only in

The humoral and mucosal immune responses were further augmented if both 1 together as hormonal immunomodulators. This novel ***immunization*** ***cells*** were being affected by the treatment procedure, alpha,25-dihydroxy vitamin D-3 and dehydroepiandrosterone were used -secreting cells were detectable in the lamina propria of the lungs and vaccination, indicating that the homing properties of antigen-specific the hormone-treated animals. In addition, specific ***antibody*** sexually transmitted diseases and other diseases caused by mucosal technique may afford new opportunities to effectively intervene in small intestines of the hormone-treated animals subsequent to ***pathogens***

SUPPL. TERM PLUS: HEPATITIS-B VIRUS; GROWTH-FACTOR-BETA; LYMPHOKINE IMMUNOLOGY; INFECTIOUS DISEASES CATEGORY:

11992 | 189 | 16901 | PINATL ACAD SCI USA

MAZANEC M B

| 1992 | 10 | 75 | VACCINE | 1987 | 7 | 265 | J CLIN IMMUNOL

11989 7 145 ANNU REV IMMUNOL

3043 [FASEB J

1988 | 2

MINGHETTI P P

MESTECKY J MCGHEE J R

MOSMANN T R

1990 |87 | 13962 |P NATL ACAD SCI USA

IN PRESS J INFECT DI

EBMAN DA EBMAN D A

EMIRE J M EMIRE J M LEMIRE J M

1994 | 135 | 2818 | ENDOCRINOLOGY

1992 | 49 | 26 | J CELL BIOCHEM

11991 |87 |1103 |J CLIN INVEST

1994 | 1127 | HDB MUCOSAL IMMUNOLO

11988 | 140 | 3033 | J IMMUNOL

HARRIMAN G R

1993 | 167 | 938 | J INFECT DIS 11993 | 11 | 11179 | VACCINE 11993 | 11 | 1107 | VACCINE

HUSBAND A J HOLMGREN J

KILSHAW P J

KILIAN M HOU M C

H ONOALX

|1990 |20 | |2201 | EUR J IMMUNOL

1992 | 4 | 54 | REG IMMUNOL 11990 | 144 | 952 | J. IMMUNOL

PRODUCTION INVIVO; IMMUNOGLOBULIN-A; CHOLERA-TOXIN;

T - ***CELLS*** ; HETEROSEXUAL

TRANSMISSION; ***INTRANASAL***

IMMUNIZATION; GAMMA-INTERFERON;

SURFACE-ANTIGEN

RESEARCH FRONT: 94-7086 002; MUCOSAL IMMUNITY; ORAL IMMUNIZATION; HUMAN-IMMUNODEFICIENCY-VIRUS VACCINES; SECRETORY

IGA; PNEUMOCOCCAL INFECTION; INDUCTION OF HUMORAL

RESPONSES

94-0045 001; 1,25-DIHYDROXYVITAMIN D-3;

BREAST-CANCER CELLS, CHOLECALCIFEROL ANALOGS

94-0261 001; CD40 LIGAND; HELPER T-CELL-DEPENDENT

B-CELL ACTIVATION; DEFECTIVE EXPRESSION

94-2087 001; HEPATITIS-B VIRUS; Z-NUMBER-2

ALPHA(1)-ANTITRYPSIN TRANSGENIC MICE; RAF-DEPENDENT ACTIVATION OF C-JUN TRANSCRIPTIONAL ACTIVITY

94-5439 001; IL-2 RECEPTOR; X-LINKED SEVERE COMBINED IMMUNODEFICIENCY; GAMMA(C) CHAIN

REFERENCE(S)

Referenced Author | Year | VOL | PG | Referenced Work

(RWK) (RPY)(RVL)(RPG) (RAU)

1992 21 347 GASTROENTEROL CLIN N 1990 | 1236 | ADV GENE TECHNOLOGY 1135 AGING IMMUNOL INFECT 1986 | 1256 | 11307 | JAMA-J AM MED ASSOC 1990 | 3 | 954 | J ACQ IMIM DEF SYND 11990 8 1303 JANNU REV IMMUNOL 1991 | 141 | 285 | J IMMUNOL METHODS 1994 |730 | 144 | ANN NY ACAD SCI 1990 | 20 | 793 | EUR J IMMUNOL |1995 | 154 | 4322 | J IMMUNOL 1986 | 98 | 311 | CELL IMMUNOL 1988 | 141 | 2035 | J IMMUNOL 1993 | 167 | 830 | J INFECT DIS 11992 | 149 | 3719 | J. IMMUNOL | 1990 | 171 | 979 | JEXP MED | 1991 | 174 | 1323 | JEXP MED 11992 | 175 | 671 | J EXP MED 1981 | 1129 | LANCET D301 | 178 | 688 | BLOOD 481 GUT 1981 | 22 1992 |3 HAJISHENGALLIS G ARCHIBALD D W FINKELMAN F D BEAGLEY K W BEAGLEY K W BEASLEY R P DAVES MDJ ARANEO B A ARANEO B A ARANEO B A DAYNES R A ABRAHAM E BHALLA A K DAYNES R A DAYNES R A DAYNES R A DAYNES R A DEFRANCE T ALTER MJ **DEVOS T**

171 HDB MUCOSAL IMMUNOLO |1986 |87 |37 |J IMMUNOL METHODS 11987 |84 |3385 |P NATL ACAD SCI USA 11989 | 17 | 172 | AM J INFECT CONTROL 1992 | 13 | 379 | IMMUNOL TODAY SCHIEFERDECKER H L | 1990 | 144 | 2541 | J IMMUNOL | 1991 | 21 | 12333 | EUR J IMMUNOL 11987 | 262 | 13424 | J BIOL CHEM 11988 | 141 | 1576 | J IMMUNOL 11990 | 161 | 407 | J INFECT DIS 1991 | 10 | 1574 | BIOTECHNIQUES |1987 |139 |2669 |J IMMUNOL 11993 | 61 | 1314 | INFECT IMMUN 1987 | 139 | 3484 | J. IMMUNOL 11993 | 11 | 866 | VACCINE 1994 SCHUMACHER J H ROSENBLUM L S PETKOVICH P M ROMAGNANI S SEDGWICK J D SVANBORG C MURRAY P D NEDRUD J G WILSON A D ROBERTS M REICHEL H OBATA T

L30 ANSWER 15 OF 19 SCISEARCH COPYRIGHT 1997 ISI (R) 95:504776 SCISEARCH ACCESSION NUMBER:

THE GENUINE ARTICLE: RK686

INTRATRACHEAL GENE DELIVERY WITH ADENOVIRAL VECTOR INDUCES ELEVATED SYSTEMIC IGG AND MUCOSAL IGA

ANTIBODIES TO ADENOVIRUS AND BETA-GALACTOSIDASE

VANGINKEL F W; LIU C G; SIMECKA J W; DONG J Y; GREENWAY T; FRIZZELL R A; KIYONO H; MCGHEE J R; AUTHOR

PASCUAL D W (Reprint)

CORPORATE SOURCE. UNIV ALABAMA, DEPT MICROBIOL, UNIV STN, BBRB 772, MICROBIOL, BIRMINGHAM, AL, 35294; UNIV ALABAMA, DEPT ALABAMA, DEPT ORAL BIOL, BIRMINGHAM, AL, 35294; UNIV CALIF SAN FRANCISCO, DEPT LAB MED, SAN FRANCISCO, BIRMINGHAM, AL, 35294 (Reprint); UNIV ALABAMA, DEPT PHYSIOL & BIOPHYS, BIRMINGHAM, AL, 35294; UNIV

CA, 94143

COUNTRY OF AUTHOR: USA

HUMAN GENE THERAPY, (JUL 1995) Vol. 6, No. 7, pp. 895-903 SOURCE

ISSN: 1043-0342.

Article; Journal DOCUMENT TYPE:

ENGLISH REFERENCE COUNT: 40 LIFE FILE SEGMENT:

ung. Both the lung and the LRLN showed elevated numbers of IgG SFCs (4and IgA were moderately induced. Analysis of the predominant murine IgG employed. Lymphocytes were isolated from the lung, the lower respiratory This evidence suggests that the lung and associated lymphoid tissues were Kinetics of serum IgG, IgA, and IgM *** antibody*** responses to the localization of this *** antibody*** response, the ELISPOT assay was to 12-fold greater than splenic IgG SFC response) for Ade5 and beta-Gal. gene dosing was performed in CD-1 mice using the replication-deficient adenovirus 5 (Ade5) vector carrying the lacZ gene, and compared to the ymph nodes (LRLN), the ***nasal*** passages (NP), and the spleen ***antibody*** responses induced by conventional ***intranasal*** to the vector, thus, impeding effective gene transduction. To assess the resulted in serum IgG titers in excess of 1:200,000, whereas serum IgM One major concern about using adenoviral vectors for repetitive gene delivery to lung epithelial cells is the induction of an immune response mmune response to the adenoviral vector, repetitive intratracheal (i.t.) (SFC) response to Ade5 and beta-Gal was located in the NP and in the adenoviral vector and to beta-galactosidase (beta-Gal) were evaluated. subclass was determined to be IgG(2b) and IgG(2a). To determine the ***antibodies*** showed that the i.p.- and i.t.-administered groups For i.t- and i.n.-administered mice, the highest IgA spot-forming cell Iwo or three adenoviral vector doses given by i.t., i.n., or i.p. routes the source for serum ***antibodies*** . Further analysis of serum yielded the greatest neutralization titers to Ade5, suggesting that the instillation will stimulate a localized and systemic ***antibody*** reduced effectiveness of repetitive gene transfer is in part due to circulating neutralizing ***antibodies*** Thus, repetitive i.t. (i.n.) and intraperitoneal (i.p.) routes of ***immunization*** esponse to the vector.

GENETICS & HEREDITY CATEGORY:

SUPPL. TERM PLUS: CELL-SURFACE EXPRESSION; MURINE ***B*** ***CELLS***; ENDOPLASMIC-RETICULUM;

GLYCOPROTEIN-B; E3/19K PROTEIN; LYMPHOCYTES-T; SECRETION; ***PATHOGENESIS***; INFLUENZA;

IMMUNITY

RESEARCH FRONT: 93-0868 003; CYSTIC-FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR; CFTR GENE; EFFECTS OF THE 93-4539 001; ORAL IMMUNIZATION; COMMON MUCOSAL DELTA-F508 MUTATION

IMMUNE-SYSTEM, COW MILK IN SUCKLING RATS, INCREASED INVITRO INTESTINAL PERMEABILITY; IGA RESPONSES

I-CELL ACTIVATION REFERENCE(S)

Referenced Author | Year | VOL | PG | Referenced Work

(RWK) (RPY)(RVL)(RPG) | (RAU)

11990 |64 |4776 |J VIROL

ANDREW ME

1993 |74 |2507 |J GEN VIROL 1993 | 193 | 940 | VIROLOGY **BERENCSI K** BOTH G W **BOUT A**

1994 |5 |821 | HUM GENE THER 1994 |S | JHUM GENE THER SRODY S.L.

|1984 | 191 | IMMUNOLOGY LUNG UPPE |1981 |3 | 1381 | CURRENT PULMONOLOGY | 1977 | 36 | 59 | J GEN VIROL | 1992 | | 363 | VACCINES NEW APPROAC 11983 | 65 | 1109 | J IMMUNOL METHODS 11987 |84 | 1356 |P NATL ACAD SCI USA 1989 86 13823 PNATL ACAD SCI USA 1991 88 11651 PNATL ACAD SCI USA |1989|7 |145 |ANNU REV IMMUNOL 1994 | 5 | 56 | IMMUNOMETHODS 1994 | 91 | 4407 | P NATL ACAD SCO IS 1993 2 155 INFECT AGENT DIS | 1991 | 59 | 3715 | INFECT IMMUN | 1992 | 4 | 18 | REG IMMUNOL 1991 | 28 | 287 | MOL IMMUNOL 1982 | 58 | 273 | 1) GEN VIROL | 1993 | 168 | 622 | J) INFECT DIS 11991 |3 |1223 |INT IMMUNOL 1993 4 771 HUM GENE THER | 1985 | 54 | 607 | IMMUNOLOGY | 1986 | 67 | 2325 | J GEN VIROL |1984| |451 |ADENOVIRUSES |1991 |5 |171 |FASEB J 1993 1177 | 1031 | J EXP MED |1993 | 151 | 4625 | J IMMUNOL 731 HUM GENE THER 1991 |174 |1629 |J EXP MED NAT GENET 2019 EMBO. 1992 | 68 | 143 | CELL 11993 67 1101 J VIROL 1990 347 358 NATURE 1994 | 1192 | GENE THER 11990 62 | 1227 | CELL 11993 |75 |1 | |CELL 11994 |6 |75 1994 15 KALTREIDER H B ROSENFELD M A GALLICHAN W S REYNOLDS H Y MCINTYRE T M GINSBERG H S GINSBERG H S MOSMANN T R **3URGERT H G** BURGERT H G ELDRIDGE J H PASCUAL D W PASCUAL D W SIMECKA J W SIMECKA J W SNAPPER C M YAMADA Y K DRUMIM M.L. GRAHAM F.L. GRAHAM F L MCGHEE J R TAYLOR P M PRINCE G A STRAUS S E STREET N E SIMON R H ENNIS F A RICH D P **ZABNER J** ZABNER YANG Y YEI S P YEISP

INITIATION OF CYTOTOXIC ***T*** - ***CELL*** L30 ANSWER 16 OF 19 SCISEARCH COPYRIGHT 1997 ISI (R) 92:62646 SCISEARCH THE GENUINE ARTICLE: HA174 ACCESSION NUMBER:

AUTHOR:

VACCINATION WITH AN EXPERIMENTAL ISCOMS RESPIRATORY RESPONSE AND PROTECTION OF BALB/C MICE BY SYNCYTIAL VIRUS SUBUNIT VACCINE

CORPORATE SOURCE: UNIV QUEBEC, INST ARMAND FRAPPIER, CTR RECH VIROL, TRUDEL M (Reprint); NADON F; SEGUIN C; BRAULT S; 531 BLVD PRAIRIES, LAVAL H7V 1B7, QUEBEC, CANADA **LUSIGNAN Y; LEMIEUX S**

(Reprint), UNIV QUEBEC, INST ARMAND FRAPPIER, CTR RECH IMMUNOL, LAVAL H7V 1B7, QUEBEC, CANADA

VACCINE, (1992) Vol. 10, No. 2, pp. 107-112. COUNTRY OF AUTHOR: CANADA

ISSN: 0264-410X.

Article, Journal ENGLISH REFERENCE COUNT: 35 DOCUMENT TYPE: FILE SEGMENT: LANGUAGE:

prepared from purified viral proteins adsorbed on adjuvant (ISCOMs) have experimental ISCOMs vaccine in initiating humoral and cell-mediated Respiratory syncytial virus is an important human ***pathogen*** subunit vaccines either expressed by recombinant DNA technology or immune responses and in providing overall protection upon live virus elderly people. Previous studies on the development of experimental shown promise. The present work reports on the effectiveness of an ***intranasal*** route also significantly reduced virus shedding. challenge in Balb/c mice; results indicate that vaccination by the causing serious lower respiratory tract infections of children and intramuscular route is more effective, even if vaccination by the

IMMUNOLOGY CATEGORY:

SUPPLEMENTARY TERM: RESPIRATORY SYNCYTIAL VIRUS, ISCOMS VACCINE;

INTRAMUSCULAR; ***INTRANASAL***; ***T***

SUPPL. TERM PLUS: CHIMERIC FG GLYCOPROTEIN; COTTON RATS; MONOCLONAL ***ANTIBODIES***; MEDIATED-IMMUNITY; INFECTION;

CHALLENGE; HAMSTERS

REFERENCE(S)

Referenced Author | Year | VOL | PG | Referenced Work (RWK) (RPY)(RVL)|(RPG)| (RAU)

| 1983 | 65 | 55 | J IMMUNOL METHODS | 1987 | 25 | 1535 | J CLIN MICROBIOL | 1988 | 66 | 2111 | J GEN VIROL | 1986 | 67 | 863 | JUGEN VIROL | 1989 | 117 | 243 | JUMMUNOL METHODS | 1990 | 1 | 5 | IMMUNOL INFECT DIS | 1986 | 56 | 125 | JPN J EXP MED 1968 89 | 435 | AM J EPIDEMIOL 11969 | 89 | 405 | AM J EPIDEMIOL 11986 | 137 | 3973 | J. IMMUNOL 1990 | 129 | 414 | CELL IMMUNOL 11982 | 67 | 312 | CELL IMMUNOL 1968 |89 | 422 | AM J EPIDEMIOL 11985 | 151 | 626 | J. INFECT DIS | 1982 | 145 | 311 | J. INFECT DIS | 1989 | 70 | 2637 | J. GEN VIROL 1976 | 10 | 75 | PEDIATR RES 11985 | 56 | 55 | J VIROL 11980 | 96 | 179 | J PEDIATR 11987 | 61 | 13163 | J VIROL 1990 |8 | 1164 | VACCINE 11990 | 15 BANGHAM C R M BANGHAM C R M ANDERSON L J FULGINITI V A MOSSMANN T GIMENEZ H B KAPIKIAN A Z MUFSON M A MUFSON M A IOHNSON P R MURPHY B R BRIDEAU R J COLLINS PL BELSHE R B HEWLETT G FISHAUT M LEUNG K N FOSSUM C SAACS D KIM H W KIM H W HOH I

dose of 500 mg a day. Gastrointestinal side effects occur in 20% of the Phenomenology, ***pathogenesis***, diagnosis and Adverse Reactions Titles Otorhinolaryngology SUMMARY LANGUAGE: English Journal Belgium English DOCUMENT TYPE: (235-250)FILE SEGMENT: 038 0 026 037 WRIGHT P F WRIGHT P F LANGUAGE: ABSTRACT: COUNTRY AUTHOR SOURCE CHILDREN; RECOMBINANTS; ***IMMUNIZATION***; 379 ADV MUCOSAL IMMUNOLO 11986 |83 | 17462 |P NATL ACAD SCI USA ***CELL*** RESPONSE; HUMORAL RESPONSE 1984 43 | 756 | INFECT IMMUN 1984 | 52 | 1137 | IMMUNOLOGY 1990 | 117 | 59 | ARCH VIROL 1989 | 7 | 533 | VACCINE 1988 | 157 | 648 | J INFECT DIS 1989 | 112 | IVACCINE 1986 |57 | 721 |J VIROL 1986 | 607 | J VIROL

1147 ANNU REV MED 11982 |37 |397 |INFECT IMMUN 11989 | 70 | 12625 | J GEN VIROL 1970 | 122 | 501 | J INFECT DIS 1988 | 39 WELLIVER R C WATHEN M W

.30 ANSWER 17 OF 19 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V. ACCESSION NUMBER: 95313943 EMBASE

CORPORATE SOURCE: Hochgebirgsklinik, 7265 Davos Wolfgang, Switzerland Schapowal A.g.; Simon H.-U.; Schmitz-Schumann M. treatment of aspirin-sensitive rhinosinusitis.

Acta Oto-Rhino-Laryngologica Belgica, (1995) 49/3

ISSN: 0001-6497 CODEN: AORLAE

005 General Pathology and Pathological Anatomy

Immunology, Serology and Transplantation

Drug Literature Index

follow. Most aspirin-sensitive patients developed ***nasal*** polyps. Untreated, it can lead to asthma. The frequency of aspirin intolerance is perennial eosinophilic rhinitis starting in middle age and rarely seen in tartrazine, food additives, alcohol, narcotics and local anaesthetics can children. It may also be seen in atopic patients who have developed a 6.18% in patients with perennial rhinitis and 14.68% in patients with mixed type rhinitis with recurrent airway infections. There is an Aspirin-sensitive rhinosinusitis is a non-allergic, non-infectious intolerance to aspirin and most other NSAID. An intolerance to

of eosinophil apoptosis might be a second remarkable change in the immune includes avoidance of aspirin and NSAID. A general down regulation of the prefer a maintenance dose of budesonid 400 .mu. g a day. Systemic steroids LTD4 and LTE4, effective chemoattractants and activators of inflammatory arachidonic acid metabolism releasing high amounts of leukotrienes LTC4, IH2- and ***B*** - ***lymphocyte*** -activation as well. Inhibition enough, we combine them with aspirin desensitizations at a maintenance given in a dose of 50 mg a day for one week. If steroids don't work well system of aspirin-sensitive patients. A key ***pathogenic*** event immune response with glucocorticosteroids is an effective means. We activation. In atopic subjects with a mixed type rhinitis, we found a activation of the eosinophil granulocytes due to a TH1-lymphocyte-***nasal*** polyps. Immunologic studies of he blood and the ***nasal*** polyps show a hyperreactive immune system with an for aspirin sensitivity is the change of the leukotriene pathway for for a reversibility test or in exacerbation due to viral infection are effects only in 0.45%. Therapy of aspirin-sensitive rhinosinusitis safest test in aspirin-sensitive asthmatics causing bronchial side ***nasal*** challenge with lysine-aspirin for the diagnosis of bronchial and oral challenge are available. The sensitivity of aspirin-sensitive rhinitis is 0.93, the specificity 0.97. It is the cells. For the diagnosis of aspirin intolerance, ***nasal***

1989

TAYLOR G **IRUDEL M** RUDEL M **FRUDEL M**

STOTT E J

RAY R

WALSHEE

OLMSTED R A

PRINCE G A

while 73% show improvement of polyps, hyposmia and anosmia. Endonasal 1300 mg a day. The combined treatment of topical ***nasal*** steroids patients with a dose of 500 mg aspirin a day, in 46% with a mean dose of improvement in the symptoms of hyper-secretion, irritation and blockage, endoscopic surgery of the ethmoids, turbinectoms and septoplasty should months. Unfortunately there is so far no curative treatment. New drugs necessary otherwise polyps reoccur in 90% of the cases after weeks or fails. After surgery a further antiinflammatory treatment is absolutely be done if necessary, especially in cases were conservative treatment ike cytokine or leukotriene receptor antagonists give hope for better and aspirin-desensitization is effective in 65% of the patients with results in treatment of aspirin intolerance in the future.

EMTAGS: diagnosis (0140); etiology (0135); therapy CONTROLLED TERM:

(0160); adverse drug reaction (0198); iatrogenic

disease (0300); mammal (0738); human (0888),

intranasal drug administration (0283);

article (0060)

Medical Descriptors:

rhinitis: DI, diagnosis

rhinitis: DT, drug therapy rhinitis: ET, etiology

rhinitis: SU, surgery

sinusitis: DI, diagnosis

sinusitis: ET, etiology

sinusitis: DT, drug therapy

drug hypersensitivity: SI, side effect sinusitis: SU, surgery

desensitization

urticaria: SI, side effect

asthma: SI, side effect

human

intranasal drug administration article

Orug Descriptors:

Ilysine acetylsalicylate: AE, adverse drug reaction

*acetylsalicylic acid: AE, adverse drug reaction

*nonsteroid antiinflammatory agent: AE, adverse drug

reaction

glucocorticoid: DT, drug therapy

prednisone: DT, drug therapy

*budesonide: DT, drug therapy

eukotriene receptor blocking agent: DT, drug therapy tramadol: DT, drug therapy

eukotriene receptor blocking agent: DV, drug development

antibody: DT, drug therapy

CAS REGISTRY NO.: 34220-70-7; 37933-78-1; 62952-06-1; 77337-52-1; ***antibody: DV, drug development***

63781-77-1; 53-03-2; 51333-22-3; 27203-92-5; 50-78-2; 493-53-8; 53663-74-4; 53664-49-6;

36282-47-0

Tramal CHEMICAL NAME:

L30 ANSWER 18 OF 19 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V. ACCESSION NUMBER: 82202417 EMBASE

CONTROLLED TERM: EMTAGS: blood and hemopoietic system (0927); ***!ymphocytes*** were proved to have a suppressive effect on erythroid CORPORATE SOURCE: Inst. Clin. Med., Univ. Tsukuba, Sakura-Mura, TOXOIDS AND VACCINES/Allergens, antigens, antibodies ***T*** - ***cell*** suppressive effect on erythroid colony formation treatment with anti-human lymphocyte globulin (ALG). Blood ***T*** exhibited a suppressive effect on erythroid colony formation. The results observed along with frequent ***nasal*** bleeding. Again the R cells colony formation. ALG was administered intravenously at a dose of 15 A 6-year-old girl with severe aplastic anaemia improved promptly after Severe aplastic anaemia treated with anti-lymphocyte SCAND. J. HAEMATOL., (1982) 29/2 (128-134). and reticulocyte response. The findings suggest an immune-mediated platelet count was observed while the formation weakened when the mg/kg/d for 5 d. By the 14th d she showed a prompt increase in the ***administration*** of ALG, a decreased reticulocyte count was of serial co-culture studies revealed a close correlation between the 037.24.05.00.00. Drug Literature Index/ANTISERA, etiology (0135); immunological factors (0136); case reticulocyte count. Within the next 2 weeks slight increase of the globulin. The relationship between clinical course reticulocyte count exceeded 100 x 109/l. About 4 months after ***intravenous drug administration*** (0182); and erythroid colony suppression by ***T*** nechanism for the haematopoietic disorder in this patient. report (0151); therapy (0160); mouse (0727); Hanada T.; Abe T.; Fukao K.; et al. reticuloendothelial system (0924) Niihari-Gun, Ibaraki 305, Japan ****lymphocyte antibody*** 007.13.01.01.00. ***pathogenesis*** Medical Descriptors: CODEN: SJHAAQ nedical treatment colony formation *aplastic anemia 025.06.04.02.00. Denmark 007.16.00.00.00. 007.36.01.00.00. 025.01.03.00.00. 025.02.01.00.00. 025.04.04.00.00. 026.03.04.00.00. 026.13.04.00.00. 026.20.01.01.00. 026.14.01.00.00 'suppressor cell English erythropoiesis *T lymphocyte reticulocyte ***cells*** CLASSIFICATION: LANGUAGE ABSTRACT SOURCE: AUTHOR TITLE

L30 ANSWER 19 OF 19 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V Animal model of human disease: Infectious and ACCESSION NUMBER: 78260038 EMBASE

neoplastic respiratory diseases associated with

cigarette smoking

CORPORATE SOURCE: Dept. Microbiol., Univ. West. Australia, Nedlands, Holt P.G.; Keast D.; Mackenzie J.S. AUTHOR

AM. J. PATHOL., (1978) 90/1 (281-284). Australia SOURCE:

CODEN: AJPAA4

United States COUNTRY:

English LANGUAGE:

ABSTRACT

immunologic changes are also demonstrable following long-term exposure to the regional lymph node and systemic activity show transient enhancement ***Antibody*** production within the Mice exposed to the smoke of cigarettes exhibit biphasic changes in local respiratory disease(s). Likely, the agents in tobacco smoke which produce suppression. Cellular immunity exhibits similar temporal changes. This produced by whole tobacco smoke can be mimicked by its vapor phase. ung is severely depressed within 2 wk of starting exposure. In contrast, immunosuppression are chemically similar to industrial air pollutants biphasic phenomenon is also demonstrable in challenge experiments involving live influenza virus and viable tumor cells. These biphasic mmunologic function in man is probably also affected by long-term industrial air pollutants. Therefore air pollution per se may induce inhalation of cigarette smoke *** Antibody*** titers following (particularly nitrogen oxides), as many of the effects on animals as long as 16 wk during continuous exposure prior to eventual and systemic immune function.

immunization with killed influenza vaccines fall more rapidly in before vaccination; smokers have an increased susceptibility to influenza smokers than in nonsmokers, provided they have little or no immunity and other respiratory infections and seroconversion after ***intranasal***

macrophages from cigarette smokers fail to respond to the lymphokine MIF antigens during consecutive pregnancies is less marked in smoking women smokers, and consequently tobacco smoke components other than tars may immunosuppression, be involved in the etiology and ***pathogenesis*** observed in mouse may also occur in human smokers; PHA-reactivity and which may induce lung cancer. Carcinogenic tobacco tars unlikely play a ***T*** - ***cell*** counts in the peripheral blood of smokers under mechanisms to those which provide the major defense against infectious ***administration*** of live influenza vaccine is increased; lymphocytotoxic ***antibody*** production against HLA than in nonsmokers; smokers consistently exhibit leukocytosis; alveolar been shown to be reduced. Cigarette smoke contains many carcinogens, 40 yr of age were above normal limits. Significantly, PHA-reactivity in smokers of 50 yr and above (together with circulating IgG levels) have transient enhancement in some T-lymphocyte function similar to that and chemotaxis is depressed in smokers. It has been suggested that a also be deleterious to the health of the smoker. Similar immunologic disease(s), may protect the host from the development and spread of significant role in the etiology of infectious respiratory disease(s) in neoplasms. Prolonged cigarette smoking may, therefore, by

of disease(s) associated with this habit.

005.02.10.00.00. 005.02.13.00.00. 005.02.20.00.00. 016.01.09.00.00. 005.02.14.00.00. 005.02.19.00.00. CLASSIFICATION:

CONTROLLED TERM: Medical Descriptors:

*smoking

016.03.10.00.00

*cigarette smoking

cellular immunity

*lung carcinogenesis

*air pollution

*immunosuppression

*T lymphocyte

*lymphocyte transformation

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30.33 FULL ESTIMATED COST STN INTERNATIONAL LOGOFF AT 12:09:21 ON 31 JAN 97

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WELCOME TO THE

U.S. PATENT TEXT FILE

=> s atomizer

5380 ATOMIZER

=> s 11 and (nasal or intranasal)

1958 INTRANASAL **7360 NASAL**

166 L1 AND (NASAL OR INTRANASAL) 77

898616 DEVICE => s 12 and device

81 L2 AND DEVICE

1 p ←

aerosolizer; Theodore J. Century, 29/890.143, 456 [IMAGE AVAILABLE] 5,594,987, Jan. 21, 1997, Method of making a sub-miniature

=> d 10

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⇒ d20

D20' IS NOT A RECOGNIZED COMMAND

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(D) (1) (£) (D)

=> d 35

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 Geoffrey Allan, et al., 514/18, 826; 530/331 [IMAGE AVAILABLE]

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=> d kwic 73

US PAT NO: 4,228,795 [IMAGE AVAILABLE] L3: 73 of 81

SUMMARY

BSUM(3)

A **device** that disperses liquid into a fine spray or aerosol, used for medical purposes, is often called a nebulizer. When the.

SUMMARY:

BSUM(4)

Until . . of atomization. While the ultrasonic nebulizer produces a superior aerosol as compared to conventional pneumatic systems, it is an expensive **device** using electronic components and thus may not be wholly dependable in service.

SUMMARY:

BSUM(13)

Devices . . . if the hand coordination of the user is not properly synchronized with his breathing rhythm. This type of aerosol spray **device** has also come under recent criticism by the U.S.F.D.A. because of the potential danger of using Freon propellants in therapeutic.

SUMMARY

BSUM(15)

In still another type of **device**, the patient fills a small hand held nebulizer with medication, attaches the unit to a compressed gas source, and repeatedly.

DRAWING DESC:

DRWD(11)

FIG. 9 is a schematic elevational sectional view of a **device** suitable for nose inhalation.

DETDESC:

DETD(3)

In the embodiment of FIGS. 1 and 2, the **atomizer** includes an upper chamber 32 and a lower chamber 21, the two chambers being in communication via a lift tube.

DETDESC:

DETD(4)

Since the **atomizer** shown in FIGS. I and 2 has particular advantages as a medical nebulizer, it is illustrated with an impactor 26.

DETDESC

DETD(8)

Optionally, the **atomizer** may also contain an air aspirator control means 31, affixed to the outlet of vent 20. When aspirator cap 31.

DETDESC

DETD(10)

In the described operation, the **atomizer** will respond to the negative and positive pressures created by the respiratory rhythm of the patient and liquid will alternately.

DETDESC

DETD(13)

If . . . could be placed in the nostril of a person, the embodiment shown in FIG. I could become a very effective **nasal** spray **device**. In this case the needed vacuum in upper chamber 32 would be created by inhalation through a patient's nose rather.

DETDESC:

DETD(27)

This whose small moving parts are often prone to clogging. The FIG. 4 embodiment is also very well suited to a **nasal** mist sprayer because of the vertical spray pattern it produces. It is also contemplated that for such uses, outlet 46.

DETDESC:

DETD(29)

FIGS. 5 and 6 illustrate a further embodiment of the present invention which is particularly adapted as a respiratory rhythm **atomizer**. The **device** includes a housing having upper and lower chambers 101 and 102 with partition 108 therebetween. Both the liquid to be.

DETDESC:

DETD(32)

Apparatus . . used in the same manner as the apparatus shown in FIGS. 1 and 2. However, in using the earlier described **atomizer** shown in FIGS. 1 and 2, it is preferred that the patient simply inhale the desired amount of mist and.

DETDESC:

DETD(48)

FIG. 8 illustrates an embodiment especially designed as a continuous dual spray **atomizer** or nebulizer to produce two different aerosol streams. In the embodiments previously described, the spray produced is intermittent in nature,

DETDESC:

DETD(53)

During mist leaving upper discharge horn 315, is much finer than that leaving lower discharge horn 310, even though the same **atomizer** is supplying the mist that is eminating from both discharge horns. The liquid in the upper reservoir acts in a manner to filter the mist leaving said upper reservoir. In the steady-state operating mode of this spray **device**, the full liquid load is maintained in the upper reservoir, while a very small flow of liquid is supplied to.

=> d kwic 61

US PAT NO: 4,699,136 [IMAGE AVAILABLE]

L3: 61 of 81

ABSTRACT:

treatment of colds the air is introduced into the **nasal** passages of the cold sufferer at a hyperthermia level. A vaporized microbicidal agent is introduced into the **nasal** passages of the cold sufferer at a hyperthermia level. A vaporized microbicidal agent is introduced into the stream of air and into the **nasal** passages. The apparatus includes a housing containing a fan or blower and temperature control heating elements to warm the air. The housing includes a distribution area having outlets for positioning on or about the a**nasal** area of the user or other body area so that the warmed air is directed to flow to the desired. Or other medicant within the apparatus housing is introduced into the flow stream of the heated air by a spray **device** so that minute droplets of the microbicidal agent or medicant are entrained within the flow stream of the heated air.

SUMMARY:

3SUM(4)

Cold climate of the blood and internal organs. The viruses attack the cells of the mucous membrane, producing congestion, sneezing and **nasal** drip. Some viruses have other effects, including aches, fever, coughing and chill. Colds take two to three days to incubate. peak. Sufferers are most infectious at the beginning, when sneezing and dripping are at their height. The virus kills the **nasal** cells it infects, and it takes time to regenerate them. That is one explanation of why it may take a.

SUMMARY:

3SUM(11)

Because it has been found that the cold virus exists predominately in the **nasal** passages where the temperature is lower, at 91.4 degree. F., than other body areas, it has been reasoned that by artificially heating the **nasal** passages above 98.6 degree. F., the cold virus might be killed or seriously weakened. The present invention applies earlier research into.

SUMMARY:

BSUM(13)

In the present invention, original experiments utilized only the application of heat of approximately 100 degree. F. to 105 degree. F. to the **nasal** passages. These experiments showed that cold symptoms, while not lasting the full seven to ten day cycle, were only reduced. levels in combination with various microbicidal agents including hexylresorcinol and povidone-iodine. It was found that higher temperatures, which heated the **nasal** passages to approximately 106 degree. F. to 140 degree. F., in combination with the microbicidal agents hexylresorcinol and/or povidone-iodine resulted in cold.

SUMMARY

BSUM(14)

It ... the virus also acts as a catalyst to the body's immune system. The heat also increases the blood to the **nasal** passages, aiding in carrying away the dead cells and regenerating the new healthy cells in the **nasal** passages. Thus it was found that the treatment of early cold symptoms with heat and either hexylresorcinol or povidone-iodine, or.

SUMMARY:

BSUM(15)

For to thirty-six hours. As used herein the term microbicidal agent means a germicide or antiseptic which, when applied in the **nasal** passages and used in conjunction with the application of heat to the **nasal** passages, produces an alleviation of cold symptoms in a cold sufferer. It is believed that the combination of the application.

SUMMARY:

BSUM(26)

Various prior art devices have been proposed for the **device**, U.S. Pat. No. 1,239,634, produces a flow of warmed air to the patient but not at hyperthermia levels. However, the Stuart **device** will not be effective against colds as the amount of heat produced is virtually unregulated and not sufficiently high enough. ... from the invention disclosed herein which produces controlled heated air to take advantage of the properties of hyperthermia. The Stuart **device**, using the disclosed filter, produces a very unmeasured amount of medicant as there is no way of controlling how much.

SUMMARY:

BSUM(27)

The Mascolo **device**, U.S. Pat. No. 1,965,424, utilizes steam passing through a closed cup of medicant. Again this **device** fails to present a means of controlling the temperature of the steam which is probably dangerously high, especially for children... to ascertain the amount of thermal protection and the amount of medicant being delivered to the face and to the **nasal** passages, if any.

SUMMARY:

BSUM(28)

The Inoue **device**, U.S. Pat. No. 2,047,324, provides for the delivery of volatile matters or medicinal matters fumigated by means of an electric heating **device** and a forced draft. Again the **device** provides no control as to the amount of heat or the amount of medicant provided to the user.

SUMMARY

BSUM(29)

The Conlin **device**, U.S. Pat. No. 3,522,236, provides a means of delivering vapors, perhaps medicated, to the user with a crude means of.

SUMMARY:

BSUM(30)

Specifically, . . . the safe treatment of the patient, and none disclose a way of stopping the medicant without shutting down the entire **device**

SUMMARY

BSUM(31)

Additionally, . . . advantages. These noted prior art devices are also bulky, barely portable and certainly not lightweight and handheld as is the **device** of the present invention with its obvious advantages particularly in treating another patient.

SUMMARY:

BSUM(33)

It ... yet effective method and apparatus to treat symptoms of the common cold through the use of hyperthermia by warming the **nasal** passages of the cold sufferer and then providing for the application of a microbicidal agent within the **nasal** passages.

SUMMARY:

BSUM(34)

A . . . is to provide an apparatus for the treatment of the common cold which effectively combines the ability to heat the **nasal** passages of a cold sufferer to hyperthermic levels and to selectively deliver a microbicidal agent in convenient dosage to the warmed **nasal** passages.

SUMMARY

BSUM(38)

Yet . . . provide an apparatus to deliver a variety of medicants for topical or internal use as a method of treatment. The **device** provides localized controlled and regulated hyperthermia as well as controlled and regulated medicant delivery.

SUMMARY

BSUM(40)

The ... cold sufferer wherein an air stream is heated to 110 degree. In 150 degree. F. The air stream is introduced into the **nasal** passage of the cold sufferer for a selected period of time and subsequently, an effective amount of sprays containing droplets of microbicidal and anti-viral agents, to apply a coating to the **nasal** passage lining, is also injected into the **nasal** passage lining, is also injected into the introduction of the heated concurrent or sequential relationship to the introduction of the heated

SUMMARY:

BSUM(41)

The ... chosen microbicidal agents to combine in a synergistic manner to kill or seriously weaken the cold virus and/or bacteria. A ***device** for carrying out the above method comprises a housing having air entry and air exit ports wherein air is drafted.

SUMMARY:

BSUM(42)

The . . . the exit port into the distribution area with the distribution area being adapted to distribute the heated air into the **nasal** passages of the cold sufferer.

SUMMARY:

BSUM(43)

The distribution area has appropriate **nasal** outlets directing the heated air and/or spray to the **nasal** passages. A fine spray of medicated droplets is selectively released to apply a medicated coating to the mucous lining of the **nasal** passages. The spray, having its own means of propulsion, may also be sprayed into the **nasal** passages independent of the forced heated air. Alternate means of providing the spray might be an attached **atomizer** bulb with a tube entering the housing or an electric piston pump instead of the mechanical pump. Alternatively, the air.

SUMMARY:

BSUM(44)

Another advantage of the present invention is that as a primarily dry heat **device** specific dosages of medicine can be delivered to the desired point without worrying about unmeasured dilution as might be caused.

SUMMARY:

BSUM(45)

Therefore, . . . of the present invention can be used for the delivery of medicants into the blood stream and body using the **nasal** or other mucosa and for the topical application of heat and medicine in

the treatment of infection and diseases and.

SUMMARY

BSUM(46)

For . . . mucous membranes act much faster and more effectively than pills or capsules ingested into the stomach and the method of **nasal** delivery is certainly more palatable than injection.

SUMMARY

BSUM(48)

Use replace much of the painful syringes and injections to which millions of people are subjected for delivery of medication. The **nasal** mucosa delivery method may also work for drugs unsuitable for the new skin patches and also drugs currently being delivered.

SUMMARY:

BSUM(53)

Among and punctures, boils, warts and other skin growths, and the treatment of allergic rhinitis and sore throats among others. The **device** is also usable to deliver medicants at hyperthermia levels to the anal passage and can effectively replace medication normally administered.

SUMMARY:

3SUM(54)

Colds, ... with a broad spectrum antiseptic such as hexylresorcinol in an aqueous solution, which are directed in controlled amounts to the **nasal** passages. The medicant is applied intermittently during the heat treatment. The hyperthermia kills or weakens the virus and bacterian.

DRAWING DESC:

DRWD(3)

FIG. 2 is a vertical cross-section diagramatically illustrating the **device** of the present invention;

DETDESC:

DETD(2)

With . . . filter out dust particles. Preferably housings 12 and 14 are formed of lightweight high strength molded plastic material so the **device** is readily adapted for ready portability and ease of use.

DETDESC:

DETD(3)

Mounted to draw atmospheric air through opening 20 and screen 24 into chamber 16. The air flow passes through a heating **device** 28 and continues under the action of blower 26 after being warmed by the heater 28 to exit opening 22.

DETDESC:

DETD(4)

Housing. . . are designed to direct the flow of air from the apparatus 10 to the nostril of a user of the **device**. To this end the snap on end pad 34 is preferably made of a somewhat pliable rubber-like material for comfort and convenience in use. As illustrated in FIG. 2, the nose 44 of an intended user of the **device** may be pressed against end wall 36. This action tends to elevate the position of the nostrils, indicated at 46 to locate the nostrils of a user of the **device** in convenient position over the air exits ports 40 and 42.

DETDESC:

DETD(6)

The temperature of the air warmed by heater 28 may be conveniently controlled by a variable **device** such as a rheostat 50. Adjustment of rheostat 50 varies the current flowing to the heater element 28 thereby controlling.

DETDESC:

DETD(7)

Mounted ... an area of chamber 16 adjacent the outlet ports 40 and 42 for convenient inhalation by a user of the **device**. The air flowing under action of blower 26 entrains the minute droplets of the microbicidal agent to assist in the.

DETDESC:

DETD(8)

The spray **device** 58 may also be operated independently of blower actuation thus affording use of the **device** as an inhalation **device** without the flow of warmed heated air. The **device** may also be operated with the blower and spray alone without activating the heater element 28 to assist in the.

DETDESC:

DETD(10)

Because ... need not be of overly large capacity and the blower need only direct a relatively modest flow of air, the **device** is advantageously of a relatively compact and lightweight construction facilitating convenient handheld use.

DETDESC:

DETD(12)

In . 4, delivery nozzles 110 are appropriately affixed, if desired, to the outlet ports 40, 42 for extension into the user's **nasal** passages. Nozzles 110 each are cylindrical members having a rounded exterior segment 112 provided with an access port 114 to provide fluid communication to the interior of the ***device**. Nozzles 110 may be formed integral with pad 34 or as insertable members therein. It is, of course, recognized that a suitably shaped anal delivery nozzle may also be employed when the **device** is used to administer medication to the anal apassages and that other suitable shapes may be employed for delivery

DETDESC:

DETD(13)

In ... was applied to warm the air to between 110.degree. F. to 130.degree. F. to induce an elevated temperature within the **nasal** passages of the user to a hyperthermia level, i.e. above about 106.degree. F. The heated air was supplied at intermittent periods for comfort and periodically spray mists of the hexylresorcinol in sufficient amounts to effectively coat the **nasal** passages were induced to enter the warmed **nasal** passages.

DETDESC:

DETD(14)

One recommended procedure is the introduction of the microbicidal spray into the **nasal** passage in a timed relationship to the introduction of the heated air stream and forms a sequence of operation which.

DETDESC

DETD(48)

In addition the **device** may be used for the application of medicants in a topical manner on other parts of the body. As an. . .

DETDESC:

DETD(49)

Further, the **device** of the present invention has been found to be effective to heat and dry the area between the toes and.

CLAIMS:

CLMS(5)

5. Apparatus as defined in claim 1 wherein said **device** is constructed of lightweight material for convenient handheld use.

FILE 'USPAT' ENTERED AT 08:51:35 ON 31 JAN 97

WELCOME TO THE

U.S. PATENT TEXT FILE

=> s anti-human cd4

141624 HUMAN 135266 ANTI

1213 CD4

(ANTI(W)HUMAN(W)CD4) 11 ANTI-HUMAN CD4

Ξ

3409 HYBRIDOMA => s 11 and hybridoma

7 L1 AND HYBRIDOMA S

-l p ^=

1. 5,594,120, Jan. 14, 1997, Integrin alpha subunit; Michael B. Brenner, et al., 536/23.5; 435/172.3, 240.2, 320.1; 536/24.31, 24.33 [IMAGE AVAILABLE]

- 2. 5,583,002, Dec. 10, 1996, Evaluation and treatment of patients with progressive immunosuppression; Augusto C. Ochoa, et al., 435/7.23; 424/9.2, 93.71; 435/7.24, 7.4, 15, 29; 436/63, 64, 86, 501 [IMAGE AVAILABLE
- 5,556,763, Sep. 17, 1996, Evaluation and treatment of patients with progressive immunosuppression; Augusto C. Ochoa, et al., 435/7.23; 424/9.2, 93.71, 435/6, 7.24, 436/501 [IMAGE AVAILABLE]
- 5,525,461, Jun. 11, 1996, Therapeutic and diagnostic methods using 7.2, 7.21, 7.22, 7.23, 7.24, 7.92, 7.93, 7.94, 7.95, 974, 975 [IMAGE AVAILABLE] total leukocyte surface antigens; Charles W. Rittershaus, 435/5, 7.1,
- 5. 5,518,882, May 21, 1996, Immunological methods of component selection and recovery, Garry Lund, et al., 435/6, 7.21, 7.5, 7.8, 7.93, 436/501. 518, 541, 543 [IMAGE AVAILABLE]
- 6. 5,426,029, Jun. 20, 1995, Therapeutic and diagnostic methods using leukocyte surface antigens, Charles W. Rittershaus, et al., 435/7.21, 7.24, 7.9, 7.94, 436/501, 506, 518, 536 [IMAGE AVAILABLE]
- soluble T cell surface molecules; Patrick C. Kung, et al., 435/5, 7.23, 7.24, 7.9, 7.94, 34, 974, 975, 436/506, 518, 536, 548, 811, 813 [IMAGE 7. 5,292,636, Mar. 8, 1994, Therapeutic and diagnostic methods using **AVAILABLE**]

=> d kwic 7

L2: 7 of 7 5,292,636 [IMAGE AVAILABLE] US PAT NO:

SUMMARY

BSUM(165)

T 76:4061-4065;

Ledbetter, J. A., et al., 1981 cells)

Monoclonal Antibodies and T Cell

Hybridoma Elsevier/ North Holland,

N.Y., pp. 16-22.

OKT6 Reinherz, 1979, Thymocytes &

T6 49

NAI/34. Langerhans

DETDESC

DETD(33)

256:495-497), and the more recent human B cell **hybridoma** technique technique (Cole et al., 1985, Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc., pp. 77-96). (Kozbor et al., 1983, Immunology Today 4:72) and EBV-**hybridoma** lines in culture. These include but are not limited to the **hybridoma** technique originally described by Kohler and Milstein (1975, Nature A. . . for the production of antibody molecules by continuous cell

DETDESC

DETD(54)

.60:1957). Additionally, monoclonal antibodies directed against IL2R may Monoclonal . . . were produced as previously described (Uchiyama, T., et al., 1981, J. Immunol. 126(4) 1393-1397, Rubin, L. A., et al., 1985, **Hybridoma** 4:91-102, Jung, L. K. L., et al., 1984, J. Exp. Med.

DETDESC:

DETD(290)

Mouse monoclonal antibodies were generated according to procedure as described (Rubin, L. A., et al., 1985, **Hybridoma** 4:91-102; Kohler, G. and Milstein, C., 1975, Nature 256:495-497). The two monoclonal antibodies selected (2R12, 7G7) are directed against different.

DETDESC

DETD(312)

al., 1985, **Hybridoma** 4:91-102). Thus, one of the antibodies (2R12) Both . . . and sequential immunoprecipitations demonstrate that this molecule is identical to that precipitated by anti-Tac (Rubin, L. A., et demonstrates competitive binding with anti-Tac in cytofluorometric analysis of activated lymphocytes. The enzyme.

DETDESC:

DETD(518)

Antibodies ... and incubated with recombinant soluble CD4 for 2 hours at 37.degree. C. Plates were washed and 50.mu.l of each **hybridoma** supernatant at 1-10.mu.g/ml were added followed by 50.mu.l of biotinyl Leu3A. Following a 2 hour incubation, plates were.

DETDESC

DETD(521)

DETDESC

DETD(543)

Antibodies from a mouse immunized with whole T cells and screened for their ability to replace Leu3a in an assay. 500
hybridoma clones were screened and three clones meeting the above criteria were identified. One of these clones, termed 8F4, showed the

DETDESC:

DETD(689)

The following **hybridoma** cell lines, producing the indicated monoclonal antibody, have been deposited with the American Type Culture Collection, Rockville, Md., and have.

DETDESC:

DETD(690)

Hybridoma Monoclonal Antibody
Number

Cell line AM92/2R12 AM92/2R12 (anti-IL2R) Cell line 7G7 7G7 (anti-IL2R) HB. . . .

HB 9341

CLAIMS

CLMS(5)

5... according to claim 1, 2 or 4 in which the first antibody comprises monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843.

CLAIMS

CLMS(6)

 according to claim 1, 2 or 4 in which the second antibody comprises monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9842.

CLAIMS:

CLMS(7)

7. according to claim 1, 2 or 4 in which the first antibody comprises monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843, and the second antibody comprises monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9842.

CLAIMS:

CLMS(8)

8. . . in which the first antibody has the same epitope specificity as that of monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843.

CLAIMS

CLMS(9)

9... in which the second antibody has the same epitope specificity as that of monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9942.

CLAIMS:

CLMS(10)

10. . . . in which the first antibody has the same epitope specificity as that of monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843, and the second antibody has the same epitope specificity as that of monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9842.

CLAIMS:

CLMS(16)

16. The kit of claim 12 in which the first antibody comprises monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843.

CLAIMS:

CLMS(17)

17. The kit of claim 12 in which the second antibody comprises monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9842.

CLAIMS:

CLMS(18)

18. The kit of claim 12 in which the first antibody comprises monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843, and the second antibody comprises monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9842.

CLAIMS:

CLMS(23)

23. in which the first antibody has the same epitope specificity as that of monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB

CLAIMS:

CLMS(24)

24.... in which the second antibody has the same epitope specificity as that of monoclonal antibody R2B7 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB

CLAIMS:

CLMS(25)

25. . . in which the first antibody has the same epitope specificity as that of monoclonal antibody 8F4 as produced by the **hybridoma** deposited with the ATCC and assigned accession number HB 9843, and the second antibody has the same epitope specificity as that of monoclonal antibody R2B7 as produced by he **hybridoma** deposited with the ATCC and assigned accession number HB 9842.

=> d kwic 6

US PAT NO: 5,426,029 [IMAGE AVAILABLE]

L2: 6 of 7

SUMMARY:

BSUM(10)

Henry et al., 1989, **Hybridoma**, 8:577.

SUMMARY

3SUM(22)

14. Ledbetter et al., 1981, Monoclonal Antibodies and T cell

Hybridoma, Elsevier, North Holland, N.Y. pp 16-22.

SUMMARY:

BSUM(82)

Deta FI. . . beta. chain of the .alpha. beta. TCR and identifies all T cells expressing the .alpha. beta. TCR. .alpha.FI (Henry et al., 1989, **Hybridoma** 8:577) is a monoclonal antibody specific for a framework determinant of the .alpha. chain and identifies all T cells expressing.

DETDESC:

DETD(47)

A... for the production of antibody molecules by continuous cell lines in culture. These include but are not limited to the **hybridoma** technique originally described by Kohler and Milstein (1975, Nature 256:495-497), and the more recent human B cell **hybridoma** technique (Kozbor et al., 1983, Immunology Today 4:72) and EBV-**hybridoma** technique (Cole et al., 1985, Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc., pp. 77-96).

DETDESC:

DETD(116)

Antibodies and incubated with recombinant soluble CD4 for 2 nours at 37.degree. C. Plates were washed and 50 .mu.l of each **hybridoma** supernatant at 1-10 .mu.g/ml were added followed by 50 mu.l of biotinyl Leu3A. Following a 2 hour incubation, plates were.

DETDESC:

DETD(119)

monoclonal **anti**_**human** **CD4** antibody was added to each well of the microtiter plate, and the plate was again incubated at 37 degree. C. Ęō.

DETDESC

DETD(141)

hybridoma clones were screened and three clones meeting the above criteria were identified. One of these clones, termed 8F4, showed the from a mouse immunized with whole T cells and screened for their ability to replace Leu3a in an assay. 500 Antibodies.

DETDESC

DETD(192)

monoclonal **anti **- **human ** ** CD4 ** antibody (in PBS with 15% FCS and 0.15% NP-40) and 50 .mu.l of sample or standard were added to each. the wells, 50 .mu.l of horseradish peroxidase (HRP) conjugated murine Total . Tween 20). After aspirating the final wash buffer from

DETDESC

DETD(353)

monoclonal antibody, have been deposited with the American Type Culture The following **hybridoma** cell lines, producing the indicated Collection, Rockville, Md., and have.

DETDESC

DETD(354)

Monoclonal Antibody Number Accession **Hybridoma**

AM92/2R12 (anti-IL2R) Cell line AM92/2R12

Cell line 7G7 7G7 (anti-IL2R) HB. HB 9341

=> s human antigen presenting cells

15216 ANTIGEN 141624 HUMAN

50175 PRESENTING 143167 CELLS

 Γ 3

(HUMAN(W)ANTIGEN(W)PRESENTING(W)CELLS) 1 HUMAN ANTIGEN PRESENTING CELLS

1. 5,476,996, Dec. 19, 1995, Human immune system in non-human animal;

Darcy B. Wilson, et al., 800/2; 424/9.1, 93.1, 93.7, 93.71, 534, 577, 578; 800/DIG.2, DIG.5 [IMAGE AVAILABLE]

=> s HLA

938 HLA 7

124019 CLASS => s 14 and class 2 21119842 1293 CLASS 2

(CLASS(W)2)

10 L4 AND CLASS 2

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fragments and uses, Timothy J. Eberlein, et al., 530/328, 424/154.1, 155.1, 174.1, 184.1, 185.1, 277.1, 530/300, 403, 930/230 [IMAGE 1. 5,550,214, Aug. 27, 1996, Isolated antigenic oncogene peptide AVAILABLEI 2. 5,503,976, Apr. 2, 1996, DNA sequences coding for the DR .beta.-chain locus of the human lymphocyte antigen complex and diagnostic typing processes and products related thereto; Bernard F. Mach, et al., 435/6; 536/23.5 [IMAGE AVAILABLE]

Edward H. Cohen, et al., 435/6, 240.2, 320.1; 536/23.5; 935/1, 22, 24, 76, 77, 78 [IMAGE AVALLABLE] 3. 5,468,612, Nov. 21, 1995, 9804 gene and methods of use thereof;

 5,426,181, Jun. 20, 1995, DNA encoding cytokine-induced protein, TSG-14; Tae H. Lee, et al., 536/23.5, 435/69.1, 252.3, 320.1, 536/23.1 [IMAGE AVAILABLE]

5. 5,223,241, Jun. 29, 1993, Method for early detection of allograft rejection; Mitsuaki Isobe, et al., 424/1.53, 9.34; 530/391.3 [IMAGE AVAILABLE] 6. 5,169,941, Dec. 8, 1992, DNA sequences coding for the DR. beta-chain diagnostic typing processes and products related thereto; Bernard F. ocus of the human lymphocyte antigen complex and polypeptides, Mach, et al., 536/26.1; 435/69.3, 91.1, 91.41, 172.3, 240.2, 240.4, 252.31, 252.33, 252.34, 254.11, 254.2 [IMAGE AVAILABLE] 7. 5,019,384, May 28, 1991, Immunonodulating compositions and their use; Malcolm L. Gefter, et al., 424/184.1, 185.1, 186.1, 190.1, 204.1, 234.1, 265.1, 272.1 [IMAGE AVAILABLE]

8. 5,006,470, Apr. 9, 1991, Human monoclonal antibodies to cell surface antigens of melanoma, Hiroshi Yamaguchi, et al., 424/142.1, 156.1, 808; 435/70.21, 240.27, 948; 436/548; 530/388.15, 388.85, 865; 935/96, 100 104, 107, 110 [IMAGE AVAILABLE]

lymphocytes of patients with malignant melanoma; Alan N. Houghton, et al., 435/7.21, 7.23, 7.24, 7.25, 70.21, 172.2, 240.27, 960; 436/548, 813, 530/388.15, 388.8, 865; 935/100, 110 [IMAGE AVAILABLE] 9 4,693,966, Sep. 15, 1987, Human monoclonal antibodies from

 4,687,735, Aug. 18, 1987, Enzymatic poly-reactant channeling binding assay; Robert K. DiNello, et al., 435/7.91, 4, 25, 28, 183, 810, 966 [IMAGE AVAILABLE]

=> d kwic 8

US PAT NO: 5,006,470 [IMAGE AVAILABLE] L5:8 of 10

ABSTRACT

This invention provides a human monoclonal antibody, produced by a hybridoma cell line designated DSM1, which specifically binds to a human **class** **2** tumor protein antigen.

SUMMARY:

BSUM(4)

Serological . . . 1 (unique) melanoma antigens are restricted to the autologous melanoma; six examples of class 1 antigens have been detected (10-15) **Class** **2** melanoma antigens are detected on the autologous melanoma, on a subset of allogenetic melanoma cells, and on other neuroectodermally derived tumors; these **class** **2** antigens have characteristics of autoimnunogenic differentiation antigens, and one of the best-analyzed **class** **2** melanoma antigens is the ganaglioside GD2 (16), Class 3 melanoma antigens are not restricted to any differentiation lineage and are.

SUMMARY:

BSUM(11)

This invention also provides for a human monoclonal antibody which specifically binds to a human **class** **2** tumor protein antigen. Additionally, this invention provides for a hybridoma cell line designated DSM1 which produces the human monoclonal antibody.

DETDESC

DETD(5)

This invention still further provides a human monoclonal antibody which specifically binds to a human **class** **2** tumor protein antigen. Additionally, this invention provides for a hybridoma cell line designated DSM1 which produces the human monoclonal antibody.

DETDESC:

DETD(28)

DSM1 ... the SK-MEL-13 target cell (AH) did not absorb reactivity from DSM1 or DS serum, suggesting that alloantigenic systems such as **HLA**, class 1, or **class** **2** antigens were not involved. The antigen detected by DSM1 is heat-labile, hydrophobic, and binds to Con A.

DETDESC:

DETD(30)

Several antigen will facilitate the study of this class of antigen. The antigen detected by HJM1 has the characteristics of a ***class** ***2** melanoma antigen, i.e., expression by the autologous melanoma, and a subset of allogeneic melanomas, but not by cells of nonneuroectodermal.

=> d kwic 9

US PAT NO: 4,693,966 [IMAGE AVAILABLE] L5: 9 of 10

SUMMARY:

BSUM(3)

The ... hepatoma (Giraldo, G. and E. Beth. 1980, The Role of Viruses in Human Cancer. Vol. 1 (Elsevier/North-Holland, New York)), and **HLA** antigens and blood group antigens, the nature and significance of other classes of human cancer antigens detected by human antibody. Class 1 antigens are restricted to autologous tumor cells, not being detected on any other cell type, normal or malignant. **Class** ***2** antigens are shared antigens, found on a proportion of allogeneic tumors as well as on autologous tumors; recent evidence indicates that some ***Class** **2** antigens are autoantigenic differentiation antigens, as they are detected on a restricted range of normal tissues (Watanabe, T., C. S... broadly represented antigens have not been extensively analyzed. Whereas Class 3 reactivity is relatively common, antibodies to Class 1 and ***Class** ***2** antigens are found infrequently (10% of patients).

=> s cd21

5 25 CD21

=> s 16 and human 141624 HUMAN L7 21 L6 AND HUMAN

=> s 17 and antibod? 21935 ANTIBOD?

L8 20 L7 AND ANTIBOD?

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[IMAGE AVAILABLE]

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